

# Notices from the ISMS

( Novae Scientiae Mathematicae )

July 2009

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The ISMS has enhanced the journal, beginning from July 1995, by including excellent Research-Expository papers in the section "**International Plaza** for Mathematical Sciences " as well as original research papers. The section provides papers dealing with broad overviews of contemporary mathematical sciences, written by experts mainly at our invitation. Papers shedding lights on open problems or new directions or new breakthroughs for future research are especially welcome.

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## In Memoriam: William H. Cornish

Dr. William Hugh (“Bill”) Cornish, who made a number of significant contributions to the theory of BCK-algebras and related structures in the 1980s, passed away on 13 July 2008 at Canberra Hospital, Australia. He was 67.

Bill Cornish was an academic staff member at Flinders University in Adelaide, South Australia, for almost all of his career. In 1966 he was appointed as a Senior Tutor at the University of Adelaide at Bedford Park. This campus of the University of Adelaide subsequently became the Flinders University of South Australia, and in 1970 he completed a Ph.D. at the new Flinders University under the supervision of Professor Brian Abrahamson.

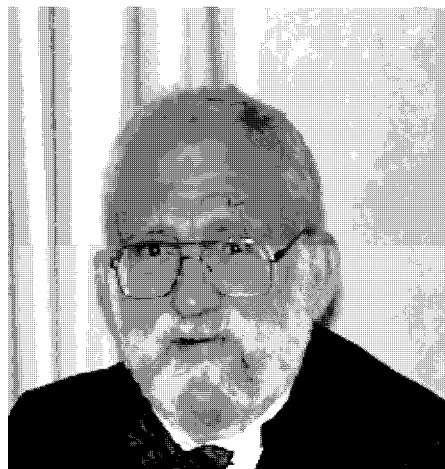
Throughout his career, Bill’s primary focus of research was in algebra, including ring theory, lattice theory, and universal algebra. During the first part of his research career (1970-1979) he was concerned with topics as diverse as semirings; lattices;

Rickart rings; the theory of Boolean orthogonalities; and sheaf representations of (structurally enriched classes of) distributive lattices. Three particularly notable contributions from this period are the papers [2,9,10]. The first of these papers studies prime ideals in distributive lattices, while the other two works establish dualities between De Morgan algebras [resp. Kleene algebras] and certain ordered topological spaces.

A BCK-algebra  $\langle A; \rightarrow, 1 \rangle$  is a residuation subreduct of a commutative, integral residuated lattice  $\langle A; \wedge, \vee, *, \rightarrow, 1 \rangle$  [12]. It was while studying nearlattices [11] with his student R. C. Hickman that Bill noticed a link between these structures and certain types of BCK-algebras [7, p. 112], and much of the second part of his research career (1980-1985) was devoted to their study.

In a seminal 1980 paper [5] Bill introduced the class of all  $n + 1$ -potent BCK-algebras, namely, BCK-algebras satisfying an identity of the form  $x \rightarrow^{n+1} y \approx x \rightarrow^n y$  ( $n \in \omega$ ). For substructural logics  $n + 1$ -potency is the algebraic counterpart of  $n + 1$ -contraction [16, Chapter 2§2.6]; the ideas presented in [5] are now ubiquitous in algebraic and substructural logic. The main theorem of his neglected contribution [4], on positive implicative BCK-algebras, presages the now classic result of Köhler and Pigozzi [15] asserting that a variety  $\mathcal{V}$  has equationally definable principal congruences if and only if the join semilattice of compact congruences  $\langle \text{Cp } \mathbf{A}; \vee, \omega_{\mathbf{A}} \rangle$  of every algebra  $\mathbf{A} \in \mathcal{V}$  is dually relatively pseudocomplemented. In his paper [6] on BCK-algebras with a supremum, Bill emphasised the importance of what are now known as hoops (naturally ordered commutative residuated integral monoids), and introduced an ordinal sum construction that plays a crucial role in the study of these algebras [1] and related structures. His 1982 survey paper [7] on BCK-algebras, though dated, is a classic in the field, and is still cited as a standard reference along with Iséki and Tanaka’s [14].

The final phase of Bill’s mathematical career (1985-1990) resulted in the research monograph *Antimorphic Action* [8], which was published by Heldermann Verlag in 1986. This work studies, in a categorical setting, distributive lattice expansions  $\langle A; \wedge, \vee, 0, 1, F \rangle$  where  $F$  is a monoid of unary additional operations, each of which is an endomorphism or dual endomorphism of the bounded lattice reduct. This work laid the foundation for the study of what are now known as Cornish algebras [17], and had some influence on the early development of the theory of double quasioperator algebras [13], namely, distributive lattice expansions in which (coordinatewise) each operation either preserves both join and meet or reverses them.



In the latter years of his career Bill suffered from poor health and after a period of leave he formally retired from Flinders University in 1994. He supervised four Ph.D. students during the period 1972-1982 and produced a total 65 refereed publications. Of his papers, eleven were written jointly, including seven with his Ph.D. students.

Following his retirement, Bill applied his analytic skills to the stock market and he became a successful investor. With Shirley Cornish, he wrote a well-regarded book about the Australian stock market, *Investing with the Professionals*, which was published in 2003. He is survived by his wife Shirley, his two children, Clif and Galia, and by three grandsons.

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## Communications :

### ( ) Conferences for Young Algebraists

Klaus Denecke

The following list gives some information on the future conferences of young algebraists:

1. CYA (79. AAA), Olomouc (Czech Republic), February 2010

See also pages 10 and 11 of Notices from the ISMS, January 2007.

### ( ) Call for Proposals and Organizers for Special Sessions in IVMS 2009

For details, please see pages 18 to 20 of Notices from the ISMS, March 2008.

Organizers should access to the following URL and send us the application form.

[http://www.jams.or.jp/hp/ivms\\_organizers.html](http://www.jams.or.jp/hp/ivms_organizers.html)

## The ISMS:

### (1) Results of Confidence Vote

#### (President, Secretaries, and Council Members)

The confidence votes for President, Secretaries, and Council Members were conducted with the deadline of June 15, 2009. All of the candidates have won the confidence of the ISMS members. The term of office begins on July 1, 2009.

**President: Hisao Nagao** (Term of office: Until Dec. 31, 2010)

**Secretaries** (Until June 30, 2012)

Publication: **Kiyoshi Iseki, Shunsuke Sato, Masatoshi Fujii, Shintaro Mohri**

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Administration: **Yoshinobu Teraoka**

**Council Members** (Until June 30, 2012)

**Yoshiki Kinoshita, Hiroaki Ishii**

### ( II ) ISMS Annual Meeting (2009)

The ISMS annual meeting will be held as follows.

Time: **August 12, 2009**

Place: **Takigawa Memorial Hall, Kobe University**

### (III) Submission for the SCI (Science Citation Index)

In order to further improve the quality of our journal, we have submitted our journal to **Thomson Scientific** for evaluation and selection to be included in the **SCI (Science Citation Index)**. The evaluation and selection is ongoing at Thomson Scientific with our journal based on their standards.

It is requested that the next three consecutive issues should be forwarded to **Thomson Reuters** as each is published. We are dispatching Vol. 69-2 (March 2009), Vol. 69-3 (May 2009) and Vol. 70-1 (July 2009) for evaluation.

It is said that many factors are taken into account when evaluating journals for coverage, ranging from the qualitative to the quantitative. The journal's basic publishing standards,

its editorial content, the international diversity of its authorship, and the citation data associated with it are all considered. But it is emphasized as the most important and basic criterion in the evaluation process that the journal is published on time. We will do our best to publish our journal without delay.

#### **(IV) Contributions (Gift to the ISMS)**

We deeply appreciate your generous contributions to support the activities of our society. The donation are used (1) to make medals for the new prizes (Kitagawa Prize, Kunugi Prize, and ISMS Prize), (2) to support the IVMS at Osaka University Nakanoshima Center, and (3) for a special fund designated by the contributors.

The contributions are classified into the following five categories.

- (A) ¥ 500,000 (or \$5,000) and above
- (B) ¥ 100,000 (or \$1,000) and above
- (C) ¥ 50,000 (or \$500) and above
- (D) ¥ 10,000 (or \$100) and above
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Your remittance to the following accounts of ours will be very much appreciated.

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- (2) If the SCMJ authors prepare their files in ISMS standard format (Js.), the lead time from acceptance to the online publication **will be extremely short or nil**.
- (3) In the proofreading is made by the SCMJ (Paper or TeX) author, we will publish the paper on the Web as soon as we receive the corrected galley proof.
- (4) The Journal is reviewed by **Mathematical Review** and **Zentralblatt from cover to cover**.

### (A) Submission

Authors are requested to choose one of the editors in the SCMJ editors list and send their papers, satisfying all of the following conditions, **directly to the editor**. The editors list can be obtained from (i) URL:<http://www.jams.or.jp/> (ii) “ Editorial Board” of SCMJ(Vol.68, No. 3, November 2008).

Prepare **e-mail Form for Submission and three** hard copies of your paper, **three** hard copies of Form for Submission, and send them as follows.

- **To the editor’s e-mail address**; Form for Submission (with the abstract)
- **To the editor’s postal address**; **Two** hard copies of your paper, **two** hard copies of the Form for Submission (with the abstract)
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**To e-mail Form for Submission is mandatory to support** the editor-receive-system, not to waste the precious research time of the editors and promote efficiency in the editorial procedure.

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Every paper should contain an abstract. Try to limit your abstract to 20 lines when typed in TeX. The abstract should be a kind of mini research announcement which is **self-contained** and gives **the overview** of your paper. Abstracts of accepted papers are **very rapidly displayed** on ISMS home page and are announced **all over the world via Internet**. Abstracts in Paper Form and E-mail Form should be typed in **Text file**. If it is inevitable for you to use symbols in the abstract, you may make it in a TeX source file indicating **the kind of TeX** as notes, for example, (via LaTeX2e).

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The full postal address, telephone and facsimile numbers, e-mail address of the author should be specified at the bottom of the last page of the manuscript. 2000 AMS Subject Classification and Keywords should be written both in Paper, E-mail Form and at the **footnote** on the first page of the manuscript.

### (D) Receipt

ISMS will send a letter of receipt when we receive a hard copy, a Paper Form and E-mail Form (if the author has e-mail facility). The received date is to be specified in the letter.

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If revision of your paper is necessary, the editor informs you directly. When you revise abstract of your paper in that case, you should send new Paper Form with new abstract and E-mail Form with new abstract also.

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If your paper contains graphs or figures which cannot be processed even in LaTeX(2e), make them EPS (Encapsulated Post Script) files and then PDF files.

### (G) After Acceptance

If the paper is accepted, P authors are requested to send the following (1) & (2), T and Js authors (1) – (4).

#### (1) A hard copy of the final draft(for publishing)

- (2) Paper Form for WWW
- (3) The source file of the final draft in TeX, by e-mail or on diskette.
- (4) E-mail Form for WWW

### (H) Proofreading

ISMS will send a galley proof to P and T authors only but **not to Js authors**. We regard the final files sent by Js authors as ready for publication.

### (I) Offprints

**Every author** can obtain a **password to read his paper and** can make **as many offprints as they want**, using Acrobat Reader.

### (J) Online version of SCMJ

The full texts of the accepted papers will be located on the online version of SCMJ in the following two manners from Vol.66, No. 1 (July 2007).

- (1) A list of papers in the order of the accepted date.
- (2) A list of accepted papers organized by field of specialization with a link to (1). The field of specialization of the accepted papers will be chosen by the authors in the fields of f-1 - f-14.  
(See a list on page 25)

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(d) Multivariate Distribution Theory, Multiple testing, Testing and estimation in high Dimension, Empirical Bayes, and Stein Estimation

(a) **Vladimir Pestov**

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(c) Infinite-dimensional topological groups, Dynamics of and harmonic analysis on such groups, Functional analysis, Asymptotic geometric analysis, Geometry of datasets.

(d) 22-xx, 43A, 46B,C,L, 54H, 68P10,15,20, 92C40.

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(c) Functional equations and their applications

(d) 39Bxx

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## CHINA

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(c) Fuzzy Theory and its Application, Functional Analysis

(d) 46

## CZECH REPUBLIC

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(c) Game theory, Fair division, Optimization

(d) 91 Game theory, economics, social and behavioral sciences;

90 Operations research, mathematical programming  
06 Order, lattices, ordered algebraic structures

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(c) Universal algebra, Category theory, General topology  
(d) category theory, universal algebra, general topology

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(c) Theory of lattices. Theory of semigroups. Theory of graphs and their complexity. Complexity theory. Universal algebra  
(d) Homomorphisms, Endomorphisms and isomorphisms in varieties of semigroups, Lattices and algebras over distributive lattices, Properties of varieties and quasivarieties properties of hypercubes

### FINLAND

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(c) Formal languages, automata, computability, cryptography  
(d) Theory of automata, Formal languages, Cryptography, Cryptographic protocols, Combinatorics on words, Computability theory, Recursive functions, DNA-based computing, Algorithmic information theory

### GERMANY

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(c) General Algebra, Discrete Mathematics, Multiple-valued Logic, Ordered Sets and Lattices, Theory of Semigroups  
(d) Mathematical logic and foundations, Order, lattices, ordered algebraic structures, General algebraic systems, Group theory and generalizations

(a) **Wilhelm Klingenberg**

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(c) Riemannian Geometry, Differential Geometry, Analysis on manifolds, Calculus of Variations (in decreasing order of competence)  
(d) Differential geometry, Global analysis, analysis on manifolds, Calculus of variations and optimal control; optimization, Geometry

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(c) (1)Categorical Methods in Topology, (2)Convenient Topology, (3)General Topology  
(d) (1)Topological categories, reflections, (2)Semiuniform convergence spaces (and their invariants) (3)Topological spaces and generalizations, convergence (general theory) and limits, proximity structures and generalizations, uniform spaces and generalizations, nearness spaces

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(c) Many valued logic, quantales, many valued topology.  
(d) Many valued logic (03B50), quantales (06F07), many valued topology (= fuzzy topology 54A40), Topological linear spaces (46A).

**GREECE**

(a) **Anastasios Mallios**

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(c) Topological algebra theory, in principle, NOT normed algebras or Banach algebras and the like. Differential Geometry; in particular, infinite-dimensional, and Global Analysis, especially, Differential spaces (58A40), Applications of the above in Physics (53C80)  
(d) 46: H05, H15, H20, J05, K05, K10, L80(K-Theory of topological algebras), M05 (Tensor products of topological algebras), N50 (Applications of topological algebras in quantum physics), 58A40, 53C80, 53B50, 53D50, 70H40, 81S10, 81T05

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(c) Non-normed Topological Algebras, Topological Algebras with an Involution, Unbounded Operator Theory, Tensor products of Topological Algebras and Topological \*-Algebras.  
(d) 46H15, 46H20, 46H25, 46H30, 46H35, 46H40, 46J05, 46J10, 46J15, 46J25, 46J40, 46K05, 46K10, 46L57, 46L60, 47L60, 47L90, 46A32, 47A12  
(e) Electronic files only

**HUNGARY**

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(c) Theoretical Computer Science, Algebra  
(d) Theory of automata and formal languages  
(e) Electronic files only

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(c) Number Theory (mainly Diophantine and Algebraic Number Theory)  
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(a) **Sándor Lajos**

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(c) The algebraic theory of semigroups, Generalized inverses of matrices, Moore-Penrose inverses, von Neumann regular rings, Ideal theory of rings, Fibonacci numbers, elementary number theory

(a) **Gyula Maksa**

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(c) Functional equations

(d) Functional equations and their applications, in particular to information theory

(e) Electronic files only

## INDIA

(a) **Ashis SenGupta**

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(c) Bayesian Inference, Directional Data - Inference and Analysis, Distribution Theory, Environmental Statistics, Multivariate Analysis, Reliability, Spatial Data Analysis, Statistical Inference - univariate and multivariate

(d) As in (c)

(e) I will accept both hard copies and electronic files, but will prefer to the latter for faster processing.

## ISRAEL

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(c) Approximation Theory, Computer Added Geometric Design, Summability

(d) Shape preserving approximation, Widths, Wavelets, Image processing

## ITALY

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(c) Abstract evolution equations

(d) Evolution equations, Control theory for abstract differential equations and PDE.

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(c) Mathematical Models in Biology, Applications of Probability and Stochastic Processes

(d) Special processes, Markov processes, Mathematical biology in general

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(c) Functional analysis, partial differential equations, differential equations in abstract spaces.

(d) Partial differential equations of elliptic type (35JXX), Parabolic equations and systems (35KXX), Differential equations in abstract spaces (34JXX).

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- (c) Nonlinear elliptic partial differential equations
- (d) Blow-up analysis for nonlinear elliptic equations, variational methods, Sobolev-type inequalities on manifolds.
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- (c) Functional equations, Iteration, Discrete dynamical systems
- (d) 39Bxx, 37Axx, 37Bxx, 37Cxx, 37Dxx, 37Exx, 37Fxx, 26-xx.
- (e) Electronic files only

#### NETHERLANDS

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- (c) Natural computing, Formal languages and automata theory
- (d) Molecular computing, Formal languages, Concurrency theory (Petri nets)
- (e) Electronic files only

#### POLAND

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- (c) Function spaces theory and abstract Banach spaces theory
- (d) 46(A45, A80, E30, B20, B25, B40, B42, B04), 26(A45)
- (a) **Tomasz Kubiak**
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- (c) Fuzzy-set topology, General topology (in particular, insertion and extension of functions), Pointfree topology, Frames, and Locales (06D22), Lattices
- (d) General topology, Order, lattices, ordered algebraic structures
- (a) **Julian Musielak**
- (b) Faculty of Mathematics and Computer Science, Adam Mickiewicz University of Poznan, UL. MATEJKI 48/49, 60-769 Poznań, Poland
- (c) Real Functions: Sequences, Series, Summability: Approximation; Fourier Analysis; Functional Analysis
- (d) 20 A, B, D, E, 40 A-D, F, G, 41, 42, 46A-F
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- (d) Operator Theory, Integral Equations
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- (c) Functional Analysis, Mathematical Optimization
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- (c) Applied Probability
- (d) Optimal stopping theory; game theory; applied probability; Secondary interest: operations research; applied and mathematical statistics; optimal stochastic control;
- (e) I can accept the electronic files only.

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- (c) Nonsmooth Analysis (this is my main field of research), Nonlinear Programming (convex, nonconvex), Risk Theory (optimal risk transfer), Maximal Monotonicity (with respect to duality)
- (d) 49J52, 49J53, 49J40, 49K27, 49K35, 47H05, 90C25, 90C26, 90C29, 90C30, 90C47, 91B16, 91B30

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- (c) Algebraic approach to smooth manifolds and their generalizations; Sikorski and Froelicher differential (or smooth) spaces; Algebraic analysis (calculus of right invertible operators); Difference algebra; Difference operators; Discrete version of topics in analysis and differential geometry;
- (d) Algebraic approach to differential geometry; Discrete differential geometry; 12H10, 39A12, 39A70, 47B39
- (e) Electronic files only

## ROMANIA

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- (c) Fixed Point Theory
- (d) Fixed point theory and its applications, in particular Ordinary Differential Equations, Partial Differential Equations and Integral Equations

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- (c) Fixed Point Theory, iterative approximation of fixed points
- (d) 47H10; 47H09; 54H25; 55M20
- (e) Electronic files only

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- (c) Nonlinear Analysis
- (d) Fixed Point Theory, Multivalued Analysis, Ordinary Differential Equations and Inclusions, Integral Equations and Inclusions.
- (e) Electronic files only

## RUSSIA

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- (c) Descriptive Set Theory, Nonstandard Analysis
- (d) Mathematical logic and foundations

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- (d) Functional Analysis, Operator Theory, Convex and Discrete Geometry, Economics, operations research, programming, games, Set theory

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- (c) Optimal Stopping Theory, Game with Optimal Stopping, Stochastic Dynamic Programming, Applications in Behavioral Ecology
- (d) Optimal stopping theory, Game theory, Stochastic Dynamic Programming, Networking games.

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- (c) Low-dimensional topology, Knot theory, Hyperbolic manifolds and orbifolds.
- (d) 57M12, 57M25, 57M27, 57M50, 57M60

## SOUTH AFRICA

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- (c) Enumerative combinatorics, Categorical methods in topology, Set theoretic topology.
- (d) Enumerative combinatorics, Path enumeration, Categorical methods in topology, Set theoretic topology, Cardinal invariants, Elementary submodels
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## SPAIN

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- (d) Functional Analysis, Topological Vector Spaces, Fuzzy Sets, Wavelets

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- (a) **Salvador Hernandez**
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- (c) Topological groups, Spaces of continuous functions, Operators defined between spaces of continuous functions, General topology.
- (d) Topological groups, Spaces of continuous functions, General topology, functional analysis, Abstract harmonic analysis.

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- (c) Topological Algebra, Abstract Harmonic Analysis, General Topology.
- (d) Topological groups, representations of topological groups, duality in topological groups, totally bounded (pseudocompact, countably compact ...) topological groups.  
22Axx, 22Bxx, 22C05, 22Dxx, 43A05, 43A07, 43A22, 43A25, 43A30, 43A35, 43A46, 43A60, 54H11
- (e) Electronic files only

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- (c) Lattice-valued topology, General topology (in particular, insertion and extension of functions), Pointfree topology
- (d) 54A40, 54D15, 06D22
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#### UNITED KINGDOM

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- (c) Mathematical logic, Set theory
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#### UNITED STATES OF AMERICA

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- (c) Social choice, Voting, Game theoretic models, fair-division models
- (d) Social choice, Voting, Game theoretic models, fair-division models

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- (d) 22Axx, 54A25, 54H11, 54G11

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- (c) Set-theoretic aspects of the theory of Boolean algebras
- (d) 06Exx

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- (d) Real functions, Classical measure theory, General topology - dimension theory.

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- (c) Difference Equations and Dynamical Systems, Computer Science (Theory, Algorithms, Networks), Mathematical Biology (Population Models, Neural Nets)
- (d) Difference Equations and Dynamical Systems (39, 37), Computer Science (68M, 68Q, 68R, 68W), Mathematical Biology (92D, 92B)

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- (d) 92-xx, 62-xx, 60-xx, 37-xx
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## JAPAN

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- (c) Logic Oriented Mathematics
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- (a) **Kiyoshi Iseki**
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- (d) Model Theory, Set-theoretic Analysis

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- (d) 20Mxx

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- (d) Algebraic Number Theory, Elliptic curves, Modular forms of one variable

### f-3,

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- (d) 57M Low-dimensional topology 57Q PL-topology 05C Graph theory

**f-4,**

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- (d) Measure and integration, Vector measures, Non-additive measure theory, Topological linear spaces and related structures

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- (c) Real Analysis
- (d) Non-absolute convergent integrals, Ranked spaces, Convergent spaces, Ranked space valued integrals

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- (d) Calculus of functions taking values in infinite –dimensional spaces, Other "topological" linear spaces (ranked spaces)

**f-5,**

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