

INTERNATIONAL ASSOCIATION OF MATHEMATICAL PHYSICS



**IAMP NEWS BULLETIN**

AUGUST 1995

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*President:*

Prof. A.M. Jaffe  
Department of Physics  
Harvard University  
Cambridge, Mass. 02138, USA

*Secretary:*

Prof. A. Truman  
Department of Mathematics  
University of Wales Swansea  
SWANSEA SA2 8PP UK

*Vice-President:*

Prof. J. Fröhlich  
Theoretical Physics  
ETH-Hönggerberg  
CH-8093 Zurich  
Switzerland

*Treasurer:*

Professor H. Araki  
RIMS  
Kyoto University  
Kyoto 606-01  
Japan

Change of Address: Please inform the President:  
Prof. A.M. Jaffe if you  
should change your address.

## News from the President

Our 1997 Congress is going to be held in Brisbane, Australia, either during the week from 29 June to 4 July or from 6 July to 11 July. The chair of the Local Organizing Committee is Tony Bracken (Department of Mathematics, University of Queensland, Brisbane Qld 4072, Australia E-mail: [ajb@maths.uq.oz.au](mailto:ajb@maths.uq.oz.au)) and the chair of the Scientific Committee is Huzihiro Araki (Research Institute for Mathematical Sciences, Kyoto University, Kyoto 606, Japan; E-mail: [araki@kurims.kyoto-u.ac.jp](mailto:araki@kurims.kyoto-u.ac.jp)). There are tentative plans to have one or more satellite events in Australia and New Zealand and possibly neighboring countries. I very much look forward to your participation. You are welcome either to make suggestions to the Local Committee or to the Scientific Committee by writing to the respective chair.

Tony Bracken is setting up a page describing the meeting on the World Wide Web at the address: <http://www.maths.uq.oz.au/~jamp97>.

In this Bulletin you will see the first report from the Committee on Electronic Communication.

Over the past year, the IAMP records have been transformed in format into a modern database. This has been written here in Cambridge, a somewhat lengthy and painstaking exercise. However, it should make future record-keeping much simpler. As an interesting sidelight, it is now quite easy to track relevant facts about the membership. At present, we already have 78 lifetime members. This indicates that it is crucial for the Association to enroll younger members from graduate students working in mathematical physics, as well as others who only recently became aware of our existence. Since the renewal policy reduced dues status, only a handful of members have requested this status. For qualified individuals this requires only a brief letter to the President. The Treasurer will be sending out a second set of dues reminders in the near future to all persons in arrears. At some point not long from now, we expect to follow the Association By-Laws and discontinue the membership of persons in arrears who have not requested reduced dues status.

A problem which we discussed at the Executive Committee meeting in Paris concerns who should keep records of the Association. There is a feeling among the officers that this responsibility should not be borne by them. As the Association grows, record-keeping will become an increased burden. Thus we ask whether the record-keeping (and possibly also the preparation and circulation of the Bulletin) could be done by a person employed on a part-time basis. If we could identify someone who is reliable, conscientious, and accurate, as well as capable and interested in doing these tasks, it is likely the Executive Committee would look kindly on the employment of such a Record Keeper. If you have any comments or suggestions, please let me know.

I hope you use the remainder of your summer well!

*Arthur Jaffe*

I can be reached by e-mail at either [iamp@math.harvard.edu](mailto:iamp@math.harvard.edu) or [iamp@physics.harvard.edu](mailto:iamp@physics.harvard.edu), or by regular mail at Department of Physics, Harvard University, Cambridge, MA 02138, U.S.A.

## Comments by Treasurer (August, 1995)

### (A) Membership Dues

1. The address label normally indicates the year, up to which the membership dues have been paid. (For example, if 1997 is indicated at the upper left part of the address label, payment of membership dues are officially recorded up to (and including) the year 1997.) If it does not coincide with your record, please let the Treasurer know the exact situation.
2. Towards the end of last year, we sent out a Reminder for Membership dues to all Ordinary Members of our Association. As a result, an appreciable number of Members have paid dues. We thank you for your cooperation. However, a non-negligible number of members still have not paid dues and we are now sending a second reminder to those Ordinary Members who are in arrears in paying dues. We ask them for kind cooperation or at least some response this time.

### (B) Lifetime Membership

1. We introduced the rule for lifetime membership last year and it was announced in the last News Bulletin (November, 1994). We are very pleased that a fairly large number of older members have used this rule and do not have to worry about membership dues. However, there are sometimes misunderstanding of the rule and so we explain the main points below.
2. The merit of becoming a lifetime member is that one no longer has to pay any more membership dues and still enjoy the same privileges as members who have paid up their dues.
3. A lifetime membership is not something automatic. Each member who is eligible can become a lifetime member by writing his wishes to the Treasurer. At that time, do not forget to give your birth year (for the purpose of verification of the eligibility).  
Now we discuss the qualifications (i.e. conditions for eligibility).
4. For members who are older than 55 years, there is a transition measure which is valid only until the end of this year (1995). To take advantage of this special rule, you have to take action quickly.
  - (a) According to this rule, one can obtain a lifetime membership by paying entire dues (including back dues) up to (and including) the year in which one becomes 70.
  - (b) If a member is already 70 or older, then he can become a lifetime member if he pays all back dues up to the current year.
  - (c) In both above cases (a) and (b), please notify us your wishes because we do not have any record of the age of members.
5. If a member is 50 years or older, then one can become a lifetime member by paying (all back dues including the current year "and") the entire dues up to (and including) 15 years later in a lump sum.
6. If a member is 50 years or younger, then one can become a lifetime member by paying the entire dues up to (and including) the year in which he is 65 years old.

## Address Labels

Several members have requested information concerning the significance of address labels used on the IAMP Bulletin. Below is my own entry in the IAMP Database and my address label. A comparison of these makes clear what the various symbols on the address label refer to. 'C' in my address label indicates that I am in district C (covering Europe, West Asia and Africa) for the distribution of the News Bulletin. Other symbols with the corresponding distribution centres are:-

- A: North and South America, currently handled by B. Simon (Cal.Tech.)
- B1: East Asia, currently handled by H. Araki (Kyoto).
- B2: Australia, New Zealand and South East Asia, currently handled by A. Pearce (Melbourne).
- B3: Indian subcontinent, currently handled by A. Raina (Bombay)
- C: Europe, West Asia and Africa currently handled by A. Truman (U.K.)

The 'O' on my address label signifies that I am an Ordinary Member and 2001 indicates that my dues are paid through until the year 2001. A letter 'L' in place of 'O' would indicate that you are a Lifetime member, 'R' that you are a member entitled to reduced dues status and 'A' would indicate Associate Membership as in the case of 'Academic Press'. My membership number is #477 which was given in alphabetical order to starting members, and, after that, assigned to new members by the President as new members join the Association. Members should check their address labels for accuracy and report any discrepancies direct to the President. They should also check that they are not in arrears. If they are in arrears, they should rectify this as soon as possible. I refer to 'Comments by the Treasurer (August 1995)' which appears in this Bulletin.

A. Truman  
16. 8. 95

The screenshot shows a web-based membership database entry. At the top, there are fields for 'Title' (Prof.), 'First Name' (Aubrey), and 'Surname' (Truman). Below this, there are fields for 'Membership No.' (477) and 'Year' (2001). The main section contains address details: 'Dept. of Math.', 'Univ. College', 'Singleton Park', 'Swansea SA2 8PP Wales', and 'U.K.'. There are also fields for 'FAX' (44(792)29.57.08) and 'PHONE' (44(792)29.54.58). At the bottom, there is a field for 'E-MAIL' (a.truman@swansea.ac.uk). The interface has a dark, textured background.

Prof. Aubrey Truman #477 C O2001  
Dept. of Math.  
Univ. College  
Singleton Park  
Swansea SA2 8PP Wales  
UK

## Committee on Electronic Communication

After the IAMP Conference in Paris last summer, the Executive Committee appointed a committee on electronic communication to make recommendations to them about how our organization can best take advantage of the dramatic changes which are taking place in electronic communication and publication. Our committee hopes to address both short range issues and longer term policy issues, the latter of which will undoubtedly require more discussion by both the Executive Committee and the IAMP membership as a whole.

Two issues which our committee has discussed to date, and on which there seems to be agreement in principle are:

- (1) To make our membership list available electronically, the availability of the membership information from the AMS/MAA/SIAM combined membership on the World-Wide-Web is very convenient but does not cover nearly all of the membership of the IAMP. One concern about making this information available electronically is that the Association has in the past sold this address list to publishers, and is understandably reluctant to give up this revenue source. However, software is available which can limit the number of addresses which can be retrieved from the list at any one time, and this should protect the Association's proprietary interests.
- (2) To encourage electronic delivery of the Association Newsletter to those members who can receive it in that way. This would represent a considerable savings on postage for the Association, and the experience of several SIAM Activity Groups who have recently instituted electronic newsletters (and whose memberships are of roughly the same size as those of the IAMP) indicates that this is an efficient, economical, and rapid way to disseminate information. For members without access to e-mail, or who prefer not to use it, ordinary postal delivery would remain available.

Both of these ideas will be formally presented to the Executive Committee in the near future, but our committee would appreciate input from the membership of the IAMP on this and related issues, before we make our recommendations.

Some other issues which this committee plans to take up in the future are:

- (1) Should the IAMP set up a World-Wide-Web page. If so, what should it include?
- (2) Is there a good way to electronically publicize job opportunities in mathematical physics. (That might, for instance, be something to put on a WWW server.)

- (3) Electronic Publishing: Should the IAMP start or affiliate itself with some electronic journal?
- (4) Should the IAMP have a preprint server?

The membership of the committee is attached to the bottom of this note - please feel free to contact any of us with questions or comments about these or any other issues concerning electronic communication.

Sincerely,

*Gene Wayne*

Chair of the Committee on Electronic Communication

*Committee members:*

Jean-Pierre Eckmann (eckmann@sc2a.unige.ch),  
Will Hearst (whearst@mcimail.com),  
Hans Koch (koch@math.utexas.edu),  
Roman Kotecky (kotecky@cptsu5.univ-mrs.fr),  
Oscar Lanford (lanford@math.ethz.ch),  
Rafael de la Llave (llave@math.utexas.edu), and  
Gene Wayne (wayne@math.psu.edu).

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## ELECTRONIC MATHEMATICAL PHYSICS ARCHIVE

Dear Colleague:

We remind you that the archive is completely free to the user, and can be accessed by sending email messages to the internet address mp\_arc@math.utexas.edu. Instructions are automatically returned to the sender of any such request to that address.

To receive the paper from the archive whose number is Y-N, send the message (precisely; in particular be careful of capitals, colon, etc.):

REQUEST: send papers  
NUMBER: Y-N

to the address mp\_arc@math.utexas.edu.

Finally, we note that the archive is also a repository of email addresses and some utilities for use with the archive, and that there are three new features to the archive: a keyword search, optional file compression, and a subscription service for abstracts of archived papers.

*H. Koch, R. de la Llave, C. Radin*

Dept. of Mathematics  
University of Texas at Austin

## Announcement

Symposium of the Göttingen Academy of Sciences

Date: August 28 — September 2, 1995

Title: Algebraic Quantum Field Theory  
and Constructive Field Theory

Location: Institut für Theoretische Physik  
der Universität Göttingen  
Bunsenstr. 9  
D-37073 Göttingen

Organizers: H.J. Borchers J. Bros  
Ch. Kopper J. Yngvason

Contact: Borchers  
Telephone: 0551/39 76 77  
Email: Borchers@Theorie.Physik.UNI-Goettingen.DE  
Fax: 0551/39 92 63



Euroconference

## NONLINEAR KLEIN-GORDON AND SCHRÖDINGER SYSTEMS: THEORY AND APPLICATIONS

September 25-30, 1995, San Lorenzo del Escorial, Madrid, Spain

### Organizing and Scientific Committee

L. Vázquez (Chairman)	Complutense University (Madrid, Spain)
A.R. Bishop	Los Alamos National Laboratory (Los Alamos, USA)
P.L. Christiansen	The Technical University of Denmark (Lyngby, Denmark)
S. Jiménez	Alfonso X El Sabio University (Madrid, Spain)
V.V. Konotop	University of Madeira (Funchal, Portugal)
I. Martín	Complutense University (Madrid, Spain)
V.M. Pérez-García	Complutense University (Madrid, Spain)
L. Streit	University of Bielefeld (Bielefeld, Germany)

### Invited lecturers

S. Albeverio*	University of Bochum (Bochum, Germany)
A.R. Bishop	Los Alamos National Laboratory (Los Alamos, USA)
T. Cazenave*	University of Paris VI (Paris, France)
P.L. Christiansen	The Technical University of Denmark (Denmark)
Guo Ben-Yu	Shanghai University (Shanghai, China)
V. V. Konotop	University of Madeira (Funchal, Portugal)
M. Remoissenet	University of Bourgogne (Dijon, France)
K.H. Spatschek	Heinrich-Heine University (Düsseldorf, Germany)
L. Streit	University of Bielefeld (Bielefeld, Germany)
L. Vázquez	Complutense University (Madrid, Spain)

\* to be confirmed

This is the first of two Euroconferences aimed at addressing the issues of Nonlinearity and Disorder. The 1995 Euroconference will be devoted to the mathematical, numerical and experimental studies related to the Klein-Gordon and Schrödinger systems. The Euroconference will be organized around main lectures in each area to introduce the main concepts and stimulate the discussions. The mathematical studies will cover the functional analysis and stochastic techniques applied to the general Klein-Gordon and Schrödinger wave equations. It also will be presented a panoramic view of the numerical schemes to simulate the above equations, as well as an overview of the applications of such systems in the areas of condensed matter, optical physics, new materials and biophysics. Special attention will be devoted to the discrete Schrödinger and Klein-Gordon systems and their applications.

**Registration:** The Registration Fee is 40.000 pesetas. It covers the participation in the meeting, coffee breaks and one copy of the conference proceedings.

**Support:** The European Union, through its Human Capital and Mobility Programme, is providing financial support to selected Young European Researchers to facilitate their participation. The EU has rather restrictive eligibility requirements for these grants:

1. Beneficiaries must be EITHER citizens of an EU member state OR persons residing and WORKING IN RESEARCH FOR AT LEAST ONE YEAR in an EU member state. Young scientists from Austria, Finland, Iceland, Norway and Sweden are eligible for support.
2. Beneficiaries must be "young". As a flexible rule-of-thumb, a scientist is 'young' up to 35 years. The activity is intended primarily for the benefit of young researchers at post-doctorate level, defined as having at least six years of higher education and who hold a doctorate or an equivalent degree, or who have had two or more years of post graduate research experience. In second priority are postgraduates with less than two years of research experience, scientists recently established in jobs, and those not in receipt of research grants or not well enough established to obtain alternative financing for attending the conference. Undergraduate students, Professors and other senior scientists do not normally qualify.
3. Priority will be given to candidates from less-favoured regions of the EU.

If you wish to apply for such a grant, please fill out the enclosed form and return it by normal mail (your signature is required).

**Fellowship application deadline: March 31, 1995**

**Registration deadline: April 30, 1995**

**A touch about accommodation:** San Lorenzo de El Escorial is 49 kilometres from Madrid. It is close to Sierra de Guadarrama at a height of 1.055 metres. The town is a pleasant and peaceful spot during the year and becomes a lively cultural centre during the summer. Its picturesque surroundings heighten to a greater extent the powerful architecture of the Monastery built by King Philip II to house also the Royal Palace and the Pantheon for the Kings of Spain. All conference sessions will be held at the Florida Hotel booked to host the Euroconference. The hotel overlooks the Monastery and it is located in the best area of the town centre.

All communications regarding the euroconference must be sent to

Prof. Luis Vázquez Phone: 34-(9)1-3942481  
 Instituto de Europa Oriental Fax: 34-(9)1-3942487  
 Universidad Complutense. Somosaguas E-mail: SCHOOL95@SIM.UCM.ES  
 E-28223 Madrid, Spain

Registration form  
**NONLINEAR KLEIN-GORDON AND SCHRÖDINGER SYSTEMS:  
 THEORY AND APPLICATIONS**

NAME:

ADDRESS:

PHONE:

FAX:

EMAIL:

I WISH TO PRESENT A SHORT TALK Yes No  
 POSTER Yes No

TENTATIVE TITLE OF MY CONTRIBUTION:

CURRENT RESEARCH ACTIVITIES AND RELATION WITH THE TOPICS OF THE  
 EUROCONFERENCE

SCIENTIFIC PUBLICATIONS OF THE APPLICANT (NO MORE THAN 5) (GIVE TITLE  
 OF THE PAPER, JOURNAL, VOLUME AND PAGE NUMBERS, AUTHORS).

DO YOU APPLY FOR A HUMAN CAPITAL AND MOBILITY GRANT? Yes No

Grant application form

I wish to apply for a Human Capital and Mobility grant to attend the Euroconference:

NONLINEAR KLEIN-GORDON AND SCHRÖDINGER:  
THEORY AND APPLICATIONS

taking place in San Lorenzo del Escorial, Madrid, Spain, 25-30 November 1995.

Name ..... First name .....

Age .....

Professional status .....

University/Company .....

Zip: ..... City: ..... Country: .....

Phone: ..... Fax: ..... E-mail: .....

First University (or equivalent) graduation date: ..... Discipline: .....

Institution of graduation .....

Brief curriculum vitae since graduation: .....

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Scientific publications of applicant (no more than 5, your best or most recent)  
(Give title of paper, journal, volume, year, page numbers, authors):

- 1.
- 2.
- 3.
- 4.
- 5.

Estimated costs of travel to Euroconference (using most economical air or second class train fare):

FROM	TO	Means of Transport	Return/Single	COST

I declare the above to be truthful and sincere. I do not expect to be funded for Euroconference participation from other sources except as above, and that if I am awarded a grant by the Euroconference organizers, I will not cover any expenses from more than one funding source.

Date ..... Signature .....

(Optional) Comments on benefit of participation from Supervisor, Department Head, etc.

Name ..... Institution: .....

Position: ..... Relation with applicant: .....

Comments: .....

.....

.....

Signature Date

International Symposium On  
Functional Analysis and Related Topics  
(In Memory of Dr Yau-Chuen Wong, 3 Oct 1935 - 7 Nov., 1994)

14 - 18 December 1995

The Symposium will be held in the Chinese University of Hong Kong on 14-18 December 1995 in the memory of the late Dr Y.C. Wong who passed away recently after a brave fight against cancer. For over four decades Dr Wong had made many significant contributions. His devoted teaching and prolific mathematical research will be remembered as well as his endeavors in the linkage and cooperation of mathematicians in different parts of the world especially between mainland China, Hong Kong and Taiwan. Besides a number of local mathematicians from the Asian region, the following is a partial list of invited speakers from overseas.

Keynote/Invited Oversea Speakers

T. Ando (Sapporo, Japan)	Ky Fan (Santa Barbara, U.S.A)
H. Ataki (Kyoto, Japan)	K.S.Lau (Pittsburgh, U.S.A)
H. Bauer (Erlangen, Germany)	W. Luxemburg (Caltech, U.S.A)
M.D. Choi (Toronto, Canada)	K.K. Tan (Halifax, Canada)
C.H. Chu (London, England)	S.T. Yau (Harvard, & CUHK)

The Main Purposes of the Conference are:

- to honour the memory of Dr Yau-chuen Wong on the anniversary of his death.
- to bring together mathematicians with interests consistent with the late Dr Wong's field of research.

- to convey recent results through lectures/research talks.
- to introduce (especially to postgraduate students) the frontiers of various fields through mini-courses/invited talks. Topics included: Partial Ordering in Analysis, Fractals Wavelets, Convolution Equations and Operator Algebra.
- to provide a forum for stimulating discussion/research.

Registration Fee: US\$200/HK\$1500 (Before 1 August, 1995);  
HK\$2000 (After 1 August 1995)

(Concession may be given to students and those who cannot obtain financial support from their own institutions.)

Organizing Institutions:

- Institute of Mathematical Sciences, Chinese University of Hong Kong.
- Department of Mathematics, Chinese University of Hong Kong.
- Department of Mathematics, Hong Kong University.
- Department of Mathematics, City University of Hong Kong

Call for Papers

Please submit your contributed Papers (including Abstracts) by 1 August 1995 to one of the following:

K.F. Ng  
Department of Mathematics  
Chinese University of Hong Kong  
Shatin, Hong Kong  
E-mail:ngkf@cuhk.hk  
Fax: (852)(2)603-5154  
Tel: (852) (2)609-7968

N.C. Wong  
Department of Applied Mathematics  
Sun Yat-Sen University  
Kaohsiung 80424, Taiwan, R.O.C.  
E-mail:wong@math.nsysu.ed.tw  
FAX: (886) (7) -551-2814  
-531-9479



CONFERENCE ON  
MATHEMATICAL RESULTS IN QUANTUM MECHANICS

June 23-29, 1996 - Ascona, Switzerland  
Centro S. Franscini - Monte Verità

This conference is devoted to mathematical aspects of quantum mechanics. The topics covered will be :

- Constitution and stability of atoms and molecules
- Behaviour of matter in strong magnetic fields
- Semiclassical approximations in quantum mechanics
- Spectral theory of disordered systems
- Behaviour of physical systems under the effect of time-dependent external fields.

The conference will consist of plenary sessions with an appropriate balance between survey talks and seminar lectures. It is principally addressed to research workers active in one of its main themes. The following persons have in principle agreed to present a survey of one of the main topics :

L.A. Pastur (Charkov)	L. Seco (Toronto)
C.-A. Pillet (Geneva)	J.P. Solovej (Princeton)
D. Robert (Nantes)	J. Yngvason (Reykjavik)

In addition there will be seminar lectures and communications by participants of the conference.

Those who would like to participate are invited to express their interest to the following address :

Prof. W.O. Amrein  
Section de Physique, 24, quai Ernest-Ansermet, 1211 Genève 4, Switzerland.  
FAX : ++41 22 702 68 70 - E-mail : VERITA@SERIFOS.UNIGE.CH

The symposium fee, including full accomodation and registration, is expected to be CHF 750.--. Some fellowships will be available. The number of participants is strictly limited to 60 by the capacity of the Centro.

This conference is a follow-up of similar meetings held in Dubna, Liblice and Blossin-Berlin since 1987. The members of the conference committee are :

W.O. Amrein <sup>1</sup>	G.M. Graf <sup>3</sup>
M. Demuth <sup>2</sup>	Ph. Martin <sup>4</sup>

Geneva, August 1995

1. Dépt. de Physique Théorique, Univ. de Genève, 24, quai E.-Ansermet, CH-1211 Genève 4.  
2. Institut für Mathematik, TU Clausthal, Erzstr. 1, D-38678 Clausthal-Zellerfeld.  
3. Institut für Theoretische Physik, ETH-Hönggerberg, CH-8093 Zürich.  
4. Institut de Physique Théorique, EPF-Lausanne, CH-1015-Lausanne.

PREPRINTS RECEIVED IN SWANSEA

- S. Albeverio. Fakultät für Mathematik, Ruhr-Universität, D 44780 Bochum, Germany; SFB 237 Essen-Bochum-Düsseldorf; BiBoS Research Centre, D 33615 Bielefeld, Germany; CERFIM, Locarno (Switzerland).  
SFB 237 - Preprint Nr. 248, March 1995.  
Nonlinearity and Disorder: Some Classical, Stochastic and Quantum Aspects
- S. Albeverio<sup>1,2,3</sup> A. Daletskii<sup>1,4</sup> and Y. Kondratiev<sup>2,4</sup>. <sup>1</sup>Fakultät für Mathematik, Ruhr-Universität, D 44780 Bochum, Germany. <sup>2</sup>BiBoS Research Centre, D 33615 Bielefeld, Germany. <sup>3</sup>SFB 237 Essen-Bochum-Düsseldorf; CERFIM, Locarno (Switzerland). <sup>4</sup>Institute of Mathematics, Kiev, Ukraine.  
SFB 237 - Preprint Nr. 259, May 1995.  
Dirichlet Operators Associated with the Actions of Rotation Loop Groups in Linear Spaces
- S. Albeverio<sup>1,2,3</sup> A. Daletskii<sup>1,4</sup> and Y. Kondratiev<sup>2,4</sup>. <sup>1</sup>Fakultät für Mathematik, Ruhr-Universität, D 44780 Bochum, Germany. <sup>2</sup>BiBoS Research Centre, D 33615 Bielefeld, Germany. <sup>3</sup>SFB 237 Essen-Bochum-Düsseldorf; CERFIM, Locarno (Switzerland). <sup>4</sup>Institute of Mathematics, Kiev, Ukraine.  
SFB 237 - Preprint Nr. 258, May 1995.  
Dirichlet Operators on the Group of Interval Diffeomorphisms
- S. Albeverio<sup>1,2,3</sup> and Y. Kondratiev<sup>2,4</sup>. <sup>1</sup>Fakultät für Mathematik, Ruhr-Universität, D 44780 Bochum, Germany. <sup>2</sup>BiBoS Research Centre, D 33615 Bielefeld, Germany. <sup>3</sup>SFB 237 Essen-Bochum-Düsseldorf; CERFIM, Locarno (Switzerland). <sup>4</sup>Institute of Mathematics, Kiev, Ukraine.  
SFB 237 - Preprint Nr. 252, March 1995.  
Sypersymmetric Dirichlet Operators
- S. Albeverio<sup>1,2,3</sup>, Y. Kondratiev<sup>2,4</sup> and M. Röckner<sup>5</sup>. <sup>1</sup>Fakultät für Mathematik, Ruhr-Universität, D 44780 Bochum, Germany. <sup>2</sup>BiBoS Research Centre, D 33615 Bielefeld, Germany. <sup>3</sup>SFB 237 Essen-Bochum-Düsseldorf; CERFIM, Locarno (Switzerland). <sup>4</sup>Institute of Mathematics, Kiev, Ukraine. <sup>5</sup>Fakultät für Mathematik, Universität Bielefeld, D 33501 Bielefeld, Germany.  
SFB 237 - Preprint Nr. 255, April 1995.  
Ergodicity of L2-Semigroups and Extremality of Gibbs States

S. Albeverio<sup>1,2,3</sup>, Y. Kondratiev<sup>2,4</sup> and M. Röckner<sup>5</sup>. <sup>1</sup>Fakultät für Mathematik, Ruhr-Universität, D 44780 Bochum, Germany. <sup>2</sup>BiBoS Research Centre, D 33615 Bielefeld, Germany. <sup>3</sup>SFB 237 Essen-Bochum-Düsseldorf; CERFIM, Locarno (Switzerland). <sup>4</sup>Institute of Mathematics, Kiev, Ukraine. <sup>5</sup>Institut für Angewandte Mathematik, Universität Bonn, Germany.  
SFB 237 - Preprint Nr. 253, March 1995.  
Uniqueness of the Stochastic Dynamics for Continuous Spin Systems on a Lattice

S. Albeverio<sup>1,2,3</sup>, T. Lyons<sup>4</sup> and Yu. Rozanov<sup>5</sup>. <sup>1</sup>Fakultät für Mathematik, Ruhr-Universität, D 44780 Bochum, Germany. <sup>2</sup>BiBoS Research Centre, D 33615 Bielefeld, Germany. <sup>3</sup>SFB 237 Essen-Bochum-Düsseldorf; CERFIM, Locarno (Switzerland). <sup>4</sup>Mathematics Department, Imperial College, London, U.K. <sup>5</sup>Steklov Mathematical Institute, Moscow, Russia.  
SFB 237 - Preprint Nr. 251, March 1995.  
Some Boundary Problems for Evolution Equations with Ultra-Unbounded Stochastic Source

S. Albeverio<sup>1,2</sup> and K.A. Makarov<sup>1,3,4</sup>. <sup>1</sup>Fakultät für Mathematik, Ruhr-Universität, D 44780 Bochum, Germany. <sup>2</sup>SFB 237 Essen-Bochum-Düsseldorf; CERFIM, Locarno (Switzerland). <sup>3</sup>Alexander von Humboldt Fellow. <sup>4</sup>Department of Computational and Mathematical Physics, St. Petersburg University, 198094 St. Petersburg, Russia.  
SFB 237 - Preprint Nr.237, November 1994.  
Attractors in a Model Related to the Three-Body Quantum Problem

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