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Gainesville, FL 32611, USA

April 1990

IAMP NEWS BULLETIN

OBITUARY

With a great sorrow we learnt about the untimely death of Jiří Blank, Senior Research Fellow at the Charles University of Prague, on February 22 at the age of mere fifty years.

He was a dedicated scientist whose contributions to the theories of Schroedinger operators and Lie superalgebras may be called examples of a perfect craftsmanship. He was also an excellent teacher who managed to induce passion for mathematical physics to many students.

His civic attitudes made his life uneasy in the past two decades, and it is sad we lost him just now, at the beginning of a new era.

Above all, he was a man of a warm personality and a good friend to many of us. We lack him a lot.

Pavel Exner
Miloslav Havlíček

The dates for the 1991 IAMP Congress, to be held in Leipzig, DDR, have tentatively been set for July 30 - August 8, 1991. The scientific organizer for this conference is Prof. Walter Thirring. Assisting him will be the Conference Committee and the Advisory Committee composed of the following members:

CONFERENCE COMMITTEE

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Roepstorff
Rollnik
Ruijsenaars
Siedentop
Strocchi
Slavnov
Spohn
Szász
Woronowicz
Yngvason
Zwanziger

To : All Members of IAMP
From : Gerard G. Emch, Treasurer
Date : February 13, 1990
Subject : Annual dues and Membership update

Please check your IAMP address label and make sure to inform me immediately of any possible discrepancies. The label should carry the following information.

line 1 : Your name and first initial
Your IAMP membership number
Your regional distribution center
A = Americas: B.Simon
B1,B2,B3 = Asia, Australia, Oceania:
Araki, Hurst, Parthasaraty
C = Europe, Africa, Middle East: Ph.Blanchard
A two-digit number indicating the last year for which your annual dues are recorded; RD means "reduced dues status"; a blank entry means "new member";

The remaining lines are your address:
department, institution, (street), city, country.

It is most important that YOU verify that your dues be kept current. Indeed, now that the membership rolls have been put back in order, the Executive Committee is planning to enforce the statutes of the Association and remove those members whose dues are in arrears.

In spite of my dedicated efforts, some information on dues paid has slipped through the net. One reason, as incredible as it may sound, is that some banks do not give complete accounts of their transactions, for instance omitting all usable information on the payee; they are only willing to track it back for a prohibitive fee that turns out to be of the order of magnitude of the dues themselves ! Consequently, if the data on your labels do not match with your own accounting, I would like to urge you to inform me accordingly and send me the supporting information, at your earliest convenience. Please also inform me of your permanent change of adress, so that mailing labels can be updated.

Let me also remind new members that their dues are payable starting with the calendar year during which they have been notified their application for membership has been approved.

For your information you will find attached a listing of the amount of the annual dues and the Bank accounts to which they are payable.

Thank you.

1. Swiss Francs (Annual dues: SFr. 15.--)
   Make your payments only in SFr directly to the IAMP
   account # 347047-40
   Credit Suisse Geneve, CH-1211 Geneve SWITZERLAND
2. German Marks (Annual dues: DM 18.--)
   Make your payments only in DM directly to the IAMP
   account # 9400144
   Sparkasse Bielefeld, D-4800 Bielefeld 1 BRD
3. US Dollars (Annual dues: US $ 10.--)
   Make your payments only in US $ payable to IAMP and send
   to: Gerard G. Emch, Dept.of Mathematics,
   University of Florida, Gainesville, FL 32601
4. Japanese Yens (Annual dues: 1'300.--)
   Make your payments only in Yens directly to:
   account # 476-1270376 (Huzihiro Araki)
   Hyakumanben Branch Office of Daiichi-Kanjiyo Bank
   1 Izumidencho, Yosida, Sayoku, Kyoto 606 JAPAN
5. Polish Zloties (Annual dues: Zl. 2'000.--)
   Make your payments payable to IAMP directly to:
   account # 3007 1424
   Bank Handlowy w Warszawie S.A.
   ul. Chalubinskiego 8 , 00-950 Warsawa POLAND
6. French Francs (Annual dues: FFr. 60.--)
   Make your payments only in FFr directly to the IAMP
   account # 000341 09935 clef: RIB 61
   Societe Generale, Gaillard FRANCE
   Banque 30003 , agence 00115
   (Mme Chevallier Danielle, Gaillard)
   Please send copy of your bank receipt to Gerard G. Emch,
   IAMP Treasurer, Math. Dept., Univ. Florida, Gainesville,
   FL 32601, USA.
7. Pounds Sterling (Annual dues: L 6.--)
   Make your payments payable to IAMP and send it to:
   Prof. C.J. Isham, Dept. Theoretical Physics
   The Blackett Laboratory, Imperial College
   Prince Consort Road, London SW7 2BZ ENGLAND
8. Italian Lira (Annual dues: It.L. 13'000.--)
   Make your payments only in It.L. directly to the IAMP
   account # 10203/0 (IAMP)
   Banco di Spirito Santo, Sportello Universita
   Piazzale Aldo Moro 2 , I-00185 Roma ITALY
   Please send copy of your bank receipt to Gerard G. Emch,
   IAMP Treasurer, Math. Dept., Univ. Florida, Gainesville,
   FL 32601, USA.

In order to avoid charges for currency conversion, please make your payment in the currency of the country of the bank to which you send your dues. Should this not be possible in your case, add to your payment an appropriate amount to cover any such charges.

Please make sure that your payment includes the following information:

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SMALL DIVISORS

In the context of the "Année Spéciale Systèmes Dynamiques" of the C.N.R.S. with the participation of Ecole Polytechnique, we are pleased to announce a workshop to be held at Ecole Polytechnique in Palaiseau on May 21-22-23 and May 25, 1990.

Invited speakers :

H. ELIASSON, S.B. KUKSIN*, V.F. LAZUTKIN, J. MATHER, A.I.NEISHTADT,D. ORNSTEIN*, J. PÖSCHEL, H. RÜSSMANN, T. SPENCER*, E. WAYNE*, J.C. YOCCOZ, E. ZEHNDER

Local organizing committee M. HERMAN.

Interested participants should write before **March 15th** to

Mrs Claudine HARMIDE
Centre de Mathématiques
Ecole Polytechnique
F-91128 PALAISEAU CEDEX (FRANCE)

in order to receive the second announcement and information about accomodations.

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* To be confirmed

SMALL DIVISORS

Centre de Mathématiques
Ecole Polytechnique

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PROFESSIONAL ADDRESS_____

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DATE of DEPARTURE _____ APPROXIMATE TIME_____

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** Approximate : 350FF per night

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Telex : 601596F - FAX : (33)(1)69 41 33 92

XIXth International Conference on Differential Geometric Methods in Theoretical Physics

Rapallo (Genova), Italy — Auditorium delle Clarisse June 19–24, 1990

Scientific Program: The Conference will be centred around the following topics

— Non-commutative differential geometry.

— Quantum groups; Yang-Baxter equation; integrable systems; topological quantum field theory and gravity.

— Techniques from algebraic geometry, especially conformal field theories (including strings and superstrings) and super differential geometry.

Advisory Committee: L. Alvarez-Gaumé (CERN), M.F. Atiyah (Oxford), C.M. Becchi (Genova), K. Bleuler (Bonn), J. Eells (Warwick and ICTP), P. García Pérez (Salamanca), A. Lichnerowicz (Collège de France), G. Mackey (Harvard), Yu.I. Manin (Moscow), W. Nahm (Bonn), K. Osterwalder (Zürich), T. Regge (Torino), A. Trautman (Warsaw and SISSA), I.V. Volovich (Moscow), J. Wess (Karlsruhe).

The **List of Lecturers** so far includes L. Alvarez-Gaumé (CERN) *, G. Bandelloni (Genova), M. Batchelor (MIT), J. Bellissard (Marseille), L. Bonora (SISSA Trieste), F. Calogero (Roma), R. Coquereaux (Marseille), E. De Concini (Scuola Normale Pisa), M. Dubois-Violette (Paris), A. Floer (Berkeley), J. Fröhlich (ETH Zurich), D. Hernández Ruipérez (Salamanca), C. Itzykson (Saclay), D. Kastler (Marseille), D. Leites (Stockholm), Yu.I. Manin (Moscow) *, G. Marmo (Napoli), M.E. Mayer (Irvine), I. Penkov (Berkeley), J. Rabin (San Diego), J. Rawnsley (Warwick), C. Reina (SISSA Trieste), A. Rogers (London), M. Rothstein (SISSA Trieste), I. Volovich (Moscow), S. Woronowicz (Warsaw).

* to be confirmed. We are in contact with other scientists to complete the roster of lecturers.

Site: Rapallo is a sea resort of some 20.000 inhabitants, situated on the eastern side of the Italian Riviera, 30 km from Genova, an important cultural and industrial centre in Northern Italy. Fast international and domestic connections to Genova are available by air and rail.

Organizing Committee: Ugo Bruzzo, Claudio Bartocci (secretary), Roberto Cianci (Department of Mathematics, University of Genova); K. Bleuler (Bonn); D. Hernández Ruipérez (Salamanca).

Conference address: Claudio Bartocci — XIXth DGM, Dipartimento di Matematica, Via L.B. Alberti 4, 16132 Genova, Italy.
Phone: +39 10 353-8712; Fax: +39 10 353-8769; Bitnet: XIXDGM@IGECUNIV.BITNET.

Supporting Institutions: Università degli Studi di Genova; Comitato per la Matematica del Consiglio Nazionale delle Ricerche; National Research Project "Geometria e Fisica"; Comune di Rapallo; Azienda di Soggiorno di Rapallo.

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School of Theoretical Physics, 10 Burlington Road, Dublin 4, Ireland. Telephone 680748. Telegrams: DIAS DUBLIN.
E-mail: zwills @ irlearn . Bitnet . Fax: 680561

DOCUMENT LIST 34: Aug.- Dec. 1989

*Preprints (unless marked * (= not available)) or reprints will be sent out to requests as long as supplies are available. Apply to the Secretary.*

DIAS-STP-89-24: *J. McCONNELL: Inertial theories of dielectric relaxation in liquids.

-25: *T. GARAVAGLIA: The characteristic functions for the squeezed coherent chaotic photon state with applications to the Jaynes-Cummings model.

-26: Z.-Q. MA & D.H. TCHRAKIAN: On the stability of gauge fields in higher dimensions. *To appear in LMP.*

-28: *J.L. SYNGE: In honor of Nathan Rosen: Concepts. *Invited article for forthcoming Rosen Festschrift.*

-29: Yu. SUHOV: Towards time-dynamics for bosonic systems in quantum statistical mechanics.

-30: *D.H. TCHRAKIAN, H.J.W. MUELLER-KIRSTEN & J.-Z. ZHANG: Stability of metastability and eigenvalues of the equation of small oscillations.

-31: J. BALOG, L. FEHER, L. O'RAIFEARTAIGH, P. FORGACS, & A. WIPF: Toda theory and W-algebra from a gauged WZNW point of view.

-32: Vi. V. PAPOYAN & V.A. ZAGREBNOV: On general Bose-Einstein condensation in the almost ideal boson.

-33: W.I. SKRYPNIK: On the function integrals associated to a special Gibbs system with 3 body potentials.

PREPRINTS (RECEIVED IN DUBNA)

V.M. Adamjan (Department of Theoretical Physics, The university of Odessa, Odessa, USSR), H. Neidhardt (Laboratory of Theoretical Physics, JINR, 141980 Dubna, USSR) :
ON THE SUMMABILITY OF THE SPECTRAL SHIFT FUNCTION FOR PAIRS OF CONTRACTIONS AND DISSIPATIVE OPERATORS

J.M.G. Amaro de Matos (Sonderforschungsbereich 123, Universitaet Heidelberg, D-6900 Heidelberg 1), A.E. Patrick, V.A. Zagrebnov (Laboratory of Theoretical Physics, JINR, 141980 Dubna, USSR)
THE LIMITING GIBBS STATES FOR THE CURIE-WEISS VERSION OF THE ISING MODEL IN A RANDOM FIELD

M.Sh. Birman (Department of Mathematical Physics, Leningrad State University, 198904 Leningrad, USSR) :
A PROOF OF THE FREDHOLM TRACE FORMULA AS AN APPLICATION OF A SIMPLE EMBEDDING FOR KERNELS OF INTEGRAL OPERATORS OF TRACE CLASS IN $L^2(\mathbb{R}^m)$

S.E. Cheremshantsev (Leningrad Branch of the Steklov Institute, Fontanka 27, 191011 Leningrad, USSR) :
HAMILTONIANS WITH ZERO-RANGE INTERACTIONS SUPPORTED ON A BROWNIAN PATH

H. Neidhardt, V.A. Zagrebnov (Laboratory of Theoretical Physics, JINR, 141980 Dubna, USSR) :
THE TROTTER-KATO PRODUCT FORMULA FOR GIBBS SEMIGROUPS

A.E. Patrick, V.A. Zagrebnov (the same address as above) :
ON THE PARALLEL DYNAMICS FOR THE LITTLE-HOPFIELD MODEL

A.E. Patrick, V.A. Zagrebnov (the same address as above) :
DYNAMICS OF A MULTI-LAYERED PERCEPTRON MODEL : A RIGOROUS RESULT

V.V. Papoyan (Department of Theoretical Physics, Yerevan State University, 375049 Yerevan, Armenian SSR), V.A. Zagrebnov (the same address as above) :
ON GENERALIZED BOSE-EINSTEIN CONDENSATION IN THE ALMOST IDEAL BOSON GAS

D.L. Shepelyansky (Nuclear Physics Institute, Siberian Branch of the Soviet Academy of Sciences, Novosibirsk, USSR) :
THEORY OF DIFFUSION PHOTOEFFECT IN A HYDROGEN ATOM
1. QUANTUM LOCALIZATION OF A DYNAMICAL CHAOS (in Russian)

THEORY OF DIFFUSION PHOTOEFFECT IN A HYDROGEN ATOM
2. THE METHOD OF NUMERICAL EXPERIMENTS
3. ONE-DIMENSIONAL HYDROGEN-ATOM MODEL IN A MONOCHROMATIC FIELD (in Russian)

THEORY OF DIFFUSION PHOTOEFFECT IN A HYDROGEN ATOM

4. IONIZATION OF THE THREE-DIMENSIONAL ATOM IN A MONOCHROMATIC FIELD
5. DIFFUSIONAL EXCITATION IN IN A TWO- AND THREE-FREQUENCY FIELD (in Russian)

D.R.Yafaev (Leningrad Branch of the Steklov Institute, Fontanka 27 191011 Leningrad, USSR) :

ON THE ASYMPTOTICS OF SCATTERING PHASES FOR THE SCHROEDINGER EQUATION

PREPRINTS (RECEIVED IN GAINESVILLE)

NOTE entries for this listing should be addressed to:

John R. Klauder, **IAMP News Bulletin**, Department of Mathematics, University of Florida, Gainesville, FL 32611

Abhay Ashtekar, Physics Department, Syracuse University, Syracuse, NY 13244-1130
SELF DUALITY, QUANTUM GRAVITY, WILSON LOOPS AND ALL THAT

David Brydges, Department of Mathematics, Mathematics and Astronomy Building, University of Virginia, Charlottesville, VA 22903, **Steven N. Evans**, Department of Statistics, University of California at Berkeley, 367 Evans Hall, Berkeley, CA 94720, and **John Imbrie**, Departments of Mathematics and Physics, Harvard University, Cambridge, MA 02138
SELF-AVOIDING WALK ON A HIERARCHICAL LATTICE IN FOUR DIMENSIONS

David Brydges, Department of Mathematics, Mathematics and Astronomy Building, University of Virginia, Charlottesville, VA 22903, and **Ismael Munoz Maya**, Centro de Investigacion y de Estudios Avanzados del I.P.N., Mexico City, Mexico
AN APPLICATION OF BEREZIN INTEGRATION TO LARGE DEVIATIONS

Giovanni M. Cicuta, Dip. di Fisica dell'Universita di Bari, Via Amendola 173, 70126 Bari I.N.F.N., Sezione di Bari, **Luca Molinari**, and **Emilio Montaldi**, Dip. di Fisica dell'Universita di Milano, Via Celoria 16, 20133 Milano I.N.F.N., Sezione di Milano
MULTICRITICAL POINTS IN MATRIX MODELS

T. L. Gill and W. W. Zachary, Howard University, Department of Electrical Engineering, Washington, DC 20059
NONLINEAR SEMIGROUPS, PARTIAL DIFFERENTIAL EQUATIONS AND ATTRACTORS

EXISTENCE AND FINITE-DIMENSIONALITY OF ATTRACTORS FOR A SYSTEM OF EQUATIONS ARISING IN FERROMAGNETISM

EXISTENCE AND FINITE-DIMENSIONALITY OF UNIVERSAL ATTRACTORS FOR THE LANDAU-LIFSCHITZ EQUATIONS OF FERROMAGNETISM

J. Glimm, Department of Applied Mathematics, SUNY at Stony Brook, Stony Brook, NY 11794-3600, **X. L. Li**, New Jersey Institute of Technology, Newark, NJ 07102, **R. Menikoff** and **D. H. Sharp**, Theoretical Division, Los Alamos National Laboratory, Los Alamos, NM 87545, and **Q. Zhang**, Courant Institute of Mathematical Sciences, New York University, New York, NY 10012
A NUMERICAL STUDY OF BUBBLE INTERACTIONS IN RAYLEIGH-TAYLOR INSTABILITY FOR COMPRESSIBLE FLUIDS

J. Glimm, Department of Applied Mathematics, SUNY at Stony Brook, Stony Brook, NY 11794-3600, and **D. H. Sharp**, Theoretical Division, Los Alamos National Laboratory, Los Alamos, NM 87545
CHAOTIC MIXING AS A RENORMALIZATION GROUP FIXED POINT

George A. Hagedorn, Department of Mathematics, and Center for Transport Theory and Mathematical Physics, Virginia Polytechnic Institute and State University, Blacksburg, Virginia 24061-0123
ELECTRON ENERGY LEVEL CROSSINGS IN THE TIME-DEPENDENT BORN-OPPENHEIMER APPROXIMATION

PROOF OF THE LANDAU-ZENER FORMULA IN AN ADIABATIC LIMIT WITH SMALL EIGENVALUE GAPS

Arthur Jaffe and Konrad Osterwalder, ETH Zentrum, CH 8092 Zurich, Switzerland
WARD IDENTITIES FOR NON-COMMUTATIVE GEOMETRY

Andre Lichnerowicz, College de France 11, Place Marcelin Berthelot, 75231 Paris Cedex 05 - France
VARIETES DE JACOBI ET ESPACES HOMOGENES DE CONTACT COMPLEXES

KILLING SPINORS AND UNIVERSALITY OF THE HIJAZI INEQUALITY

APPLICATIONS OF THE DEFORMATIONS OF THE ALGEBRAIC STRUCTURES TO GEOMETRY AND MATHEMATICAL PHYSICS

ON LIE GROUPS WITH LEFT-INVARIANT SYMPLECTIC OR KAHLERIAN STRUCTURES

A. P. Maclin, T. L. Gill, and W. W. Zachary, Howard University, Department of Electrical Engineering, Washington, DC 20059
MAGNETIC PHENOMENA

J. Rembielinski, Institute of Physics, University of Lodz, Nowotki 149/153, PL-90-236 Lodz, Poland
CLASSIFICATION, PROPERTIES AND APPLICATIONS OF THE MAJORANA REPRESENTATIONS OF THE REAL CLIFFORD ALGEBRAS $C^{p,q}$

J. Rembielinski and W. Tybor, Institute of Physics, University of Lodz, ul. Nowotki 149/153, 90-236 Lodz, Poland
QUANTUM HEISENBERG-WEYL ALGEBRA

N. Reshetikhin, Department of Mathematics, Harvard University, Cambridge, MA 02138, and **F. Smirnov**, LOMI, Fontanka 27, Leningrad, 191011, USSR
HIDDEN QUANTUM GROUP SYMMETRY AND INTEGRABLE PERTURBATIONS OF CONFORMAL FIELD THEORIES

M. V. Saveliev, Institute for High Energy Physics, Serpukhov, USSR, and **A. M. Vershik**, Leningrad State University, Leningrad, USSR
NEW EXAMPLES OF CONTINUUM GRADED LIE ALGEBRAS

Daoxing Xia, Department of Mathematics, Vanderbilt University, Nashville, TN 37235
PRINCIPAL DISTRIBUTION AND TRACE FORMULAS FOR ALMOST UNPERTURBED SCHRODINGER PAIR OF OPERATORS

Gh. Zbaganu and Gh. Rautu, Centre of Mathematical Statistics, Bd. Magheru 22, Ro-70158, Bucuresti, Romania, **Joel E. Cohen**, The Rockefeller University, 1230 York Avenue, Box 20, New York, NY 10021-6399, **Yoh Iwasa**, Department of Biology, Kyushu University 33, Fukuoka 812, Japan, **Mary Beth Ruskai**, Department of Mathematics, University of Lowell, Lowell, MA 01854, and **Eugene Seneta**, Department of Mathematical Statistics, The University of Sydney, N.S.W. 2006, Australia
RELATIVE ENTROPY UNDER MAPPINGS BY STOCHASTIC MATRICES

Preprints Received in Kyoto

March 1990

V. ALDAYA[1], J. BISQUERT[1,2], J. NAVARRO-SALAS[1]
[1]Departamento de Fisica Teorica, Facultad de Fisica, Universidad de Valencia, Burjasot 46100-Valencia, Spain and IFIC (Centro mixto Universidad de Valencia-C.S.I.C.), Spain; [2]Departamento de Fisica, Escuela Univ. Politecnica, Universidad de Castilla-La Mancha, 02071-Albacete, Spain; FTUV-89-43, IFIC-89-13.
The Quantum Relativistic Harmonic Oscillator: Generalized Hermite Polinomials.

M. C. GONZALEZ-GARCIA[1], A. SANTAMARIA[1,2], J. W. F. VALLE[1]
[1]Departamento de Fisica Teorica, Universitat de Valencia and IFIC 46100 Burjassot, Valencia, Spain; [2]Max-Planck Institut fur Physik und Astrophysik, Fohringer Ring 6, D-8000 Munich 40; FTUV/89-47, IFIC/89-24 MPI-PAE/PTh 2/90.
Isosinglet Neutral Heavy Lepton Production in Z decays and Neutrino Mass.

Keiichi R. ITO
Department of Mathematics, College of Liberal Arts, Kyoto University, Kyoto 606, Japan; Kyoto University (Math., C.L.A) 1989 October.
Construction of Four Dimensional Quantum Field Models: Φ_4^4 and QED_4.

Keiichi R. ITO
Address see above,
Kyoto University (Math., C.L.A) 1989 October
Kosterlitz-Thouless Type Transition in Two-Dimensional Non-Abelian Field Theory.

Keiichi R. ITO
Address see above,
Kyoto University (Math., C.L.A.) October, 1989.
Renormalization Group Flow of Two-Dimensional Hierarchical Heisenberg Model of Dyson-Wilson Type.

PREPRINT RECEIVED IN BIELEFELD

Abada, A., Le Yaouanc, A., Oliver, L., Pène, O., and Raynal, J.-C., Laboratoire de Physique Théorique et Hautes Energies, Université de Paris-Sud, Bâtiment 211, 91405 Orsay, France; LPTHE Orsay 89/37, Nov. 1989
DYNAMICAL GENERATION OF MAJORANA MASSES

Aldaya, V., Bisquert, J., and Navarro-Salas, J., Departamento de Fisica Teorica, Facultad de Fisica, Universidad de Valencia, Burjasot, 46100-Valencia, Spain and IFIC (Centro mixto Universidad de Valencia - C.S.I.C.) Spain; FTUV-89-13, IFIC-89-13
THE QUANTUM RELATIVISTIC HARMONIC OSCILLATOR: GENERALIZED HERMITE POLINOMIALS

Ali, S.T., Antoine, J.-P., Grazeau, J.-P., Institut de Physique Théorique, Université Catholique de Louvain, B-1348 Louvain-la-Neuve, Belgium; UCL-IPT-89-18, December 1989
SQUARE INTEGRABILITY OF GROUP REPRESENTATIONS ON HOMOGENEOUS SPACES – I. REPRODUCING TRIPLES AND FRAMES

Ali, S.T. et al., address see above; UCL-IPT-89-19
SQUARE INTEGRABILITY OF GROUP REPRESENTATIONS ON HOMOGENEOUS SPACES – II. GENERALIZED SQUARE INTEGRABILITY AND EQUIVALENT FAMILIES

Applebaum, D., Department of Mathematics, Nottingham Polytechnic, Burton Street, Nottingham, NG1 4BU, England;
TOWARDS A QUANTUM THEORY OF CLASSICAL DIFFUSIONS ON RIEMANNIAN MANIFOLDS

Balog, J., Fehér, L., O'Raifeartaigh, L., Forgács, P., and Wipf, A., Dublin Institute for Advanced Studies, 10 Burlington Road, Dublin 4, Ireland; DIAS-STP-89-31
TODA THEORY AND *W*-ALGEBRA FROM A GAUGED WZNW POINT OF VIEW

Barashenkov, I.V., Bogdan, M.M., Zhanlav, T., Joint Institute for Nuclear Research, Head Post Office, P.O.Box 79, 101000 Moscow, USSR; E5-89-817
INSTABILITIES AND SOLITON STRUCTURES IN THE DRIVEN NONLINEAR SCHROEDINGER EQUATION

Bauer, M., and Itzykson, C., Service de Physique Théorique de Saclay, CEN-Saylay, 91191 Gif-sur Yvette Cedex, France; Saclay PhT/89-123
MODULAR TRANSFORMATIONS OF SU(N) AFFINE CHARACTERS AND THEIR COMMUTANT

Bauer, M., and Itzykson, C., Service de Physique Théorique de Saclay, F-911191 Gif-sur-Yvette, Cedex, France; SPhT/89-196
A CASE STUDY IN FINITE GROUPS: $PSL_2(\mathbf{F}_7)$

Beckers, J., Université de Liège, Physique Théorique et Mathématique, Institut de Physique au Sart Tilman, Batiment B.5, B-4000 Liège 1, Belgium
SUPERSYMETRIES, PARASTATISTIQUES ET ETATS PARASUPERCOHERENTS

Beckers, J., and Debergh, N., Theoretical and Mathematicl Physics, Institute of Physics, B.5, University of Liège, B-4000 Liège 1, Belgium
PARASTATISTICS, SUPERSYMMETRY AND PARASUPERCOHERENT STATES

Benfatto, G.[1], Gallavotti, G.[2], [1]Dipartimento di Matematica, Università dell'Aquila, 67100 L'Aquila, Italia, [2]Dipartimento di Fisica, Università di Roma, P. Moro 5, 00185 Roma, Italia; February 1990, n.6/90
RENORMALIZATION GROUP APPROACH TO THE THEORY OF THE FERMI SURFACE

Boiti, M., Leon, J.JP., Pempinelli, F., and Pogrebkov, A.K., Laboratoire de Physique Mathématique, U.S.T.L., 34060 Montpellier Cedex 01, France, PM/89-26, September
SOLITONS AND SPECTRAL TRANSFORM FOR THE DSI AND KPI EQUATIONS

Boiti, M., Leon, J., and Pempinelli, F., Dipartimento di Fisica dell'Università and Sezione I.N.F.N., Lecce, Italy, January 1990
BIFURCATIONS OF SOLITONS IN MULTIDIMENSIONS

Borchers, H.-J., Sen, R.N., Institut für Theoretische Physik, Universität Göttingen, Bunsenstr. 9, D-3400 Göttingen, FRG
THEORY OF ORDERED SPACES

Buffet, E., and Werner, R.F., School of Mathematical Sciences, Dublin City University, Dublin 9, Ireland and School of Theoretical Physics, Dublin Institute for Advanced Studies, 10 Burlington Road, Dublin 4, Ireland; DIAS-STP 90-01
A COUNTER-EXAMPLE IN COAGULATION THEORY

Chadan, K., and Kobayashi, R., Laboratoire de Physique Théorique et Hautes Energies[1], Université de Paris XI, 91405 Orsay Cedex, France, [1]Lab. Associé au CNRS; LPTHE Orsay 90/01, January 1990
SOME NEW BOUNDS ON THE NUMBER OF BOUND STATES

Collet, P., and Eckmann, J.-P., Départment de Physique Théorique, Université de Genève, CH-1211 Genève 4, Switzerland; UGVA-DPT 1989/11-641
THE TIME DEPENDENT AMPLITUDE EQUATION FOR TEH SWIFT-HOHENBERG PROBLEM

Damour, T. Gibbons, G.W., and Gundlach, C., Institut des Hautes Etudes Scientifiques, 35, route de Chartres, 91440 Bures-sur-Yvette, France; Janvier 1990, IHES/P/90/3
DARK MATTER, TIME-VARYING G AND A DILATON FIELD

Denis, A., Départment de Physique théorique, Université de Genève, CH-1211 Genève 4, Switzerland; UGVA-DPT 1989/09-632
STOCHASTIC ELECTRODYNAMICS AND HYDROGEN ATOM

Droz-Vincent, Ph.[1], and Nurowski, P.[2], [1]Départment de Mécanique, Université Paris VI, 4 place Jussieu, 75005-Paris, France, [2]International School for Advanced Studies (SISSA/ISAS) - Trieste, Strada Costiera 11, 34014 Trieste, Miramare-Grignano, Italy
SYMMETRIES IN PREDICTIVE RELATIVISTIC MECHANICS

Englisch, H., Pastur, L.A., Naturwissenschaftlich-Theoretisches Zentrum, Karl-Marx-Universität, DDR-7010 Leipzig, GDR
SPECTRAL ANALYTIC APPROACH TO THE ADALINE LEARNING FOR NEURAL NETWORKS

Fannes, M.[1], Nachtergaele, B.[2], Werner, R.F.[3], [1]Inst. Theor. Fysika, Universiteit Leuven, Leuven, Belgium, [2]Depto de Fisica, Universidad de Chile, Casilla 487-3, Santiago de Chile, [3]Dublin Inst. Adv. Studies, Dublin, Ireland
CONSTRUCTION AND STUDY OF EXACT GROUND STATES FOR A CLASS OF QUANTUM ANTIFERROMAGNETS

Frank, M., Naturwissenschaftlich-Theoretisches Zentrum und Sektion Mathematik, Karl-Marx-Universität, DDR-7919 Leipzig; KMU-NTZ-89-13
CENTRAL DIRECT INTEGRAL DECOMPOSITION OF VON NEUMANN ALGEBRAS AND SOME OPERATOR ALGEBRAS ON SELF-DUAL HILBERT W*-MODULI OVER COMMUTATIVE W*-ALGEBRAS

Friedrich, J., Naturwiss.-Theoretisches Zentrum, Sektion Mathematik, Karl-Marx-Universität, DDR-7010 Leipzig; KMU-NTZ-89-10
ON TUPLES OF COMMUTING SYMMETRIC, NON-SELFADJOINT OPERATORS

Ginibre, J., and Velo, G., Laboratoire de Physique Théorique et Hautes Energies, Université de Paris-Sud, 91405 Orsay Cedex, France; LPTHE ORSAY 89/34, Nov. 1989
SMOOTHING PROPERTIES AND EXISTENCE OF SOLUTIONS FOR THE GENERALIZED BENJAMIN-ONO EQUATION

Goderis, D., Verbeure, A., and Vets P., Instituut voor Theoretische Fysica, Universiteit Leuven, B-3030 Leuven, Belgium; Preprint-KUL-TF-89/34
ABOUT THE EXACTNESS OF THE LINEAR RESPONSE THEORY

Gonzalez-Garcia, M.C.[1], Santamaria, A.[1,2], and Valle, J.W.F.[1], [1]Dept. de Fisica Teòrica, Univ. de València and IFIC, 46100 Burjassot, València, Spain, [2]Max- Planck Institut für Physik und Astrophysik, Föhringer Ring6, D-8000 Munich 40; FTUV/89-47, IFIC/89-24, MPI-PAE/PTh 2/90
ISOSINGLET NEUTRAL HEAVY LEPTON PRODUCTION IN Z DECAYS AND NEUTRINO MASS

Grammaticos, B., Ramani, A., Hietarinta, J., LPN, Department of Physical Sciences, University of Turku, 20500 Turku, Finnland; TURKU-FTL-R177
A SEARCH FOR INTEGRABLE BILINEAR EQUATIONS: THE PAINLEVE APPROACH

Grosse, H., Institut für Theoretische Physik, Universität Wien; UWThPh-1989-32
THE SCHWINGER TERM AND THE BERRY PHASE IN SIMPLE MODELS

Grosse, H., Institut für Theoretische Physik, Universität Wien; UWThPh-1989-54
SUPERSYMMETRIC QUANTUM MECHANICS

Hennig, D., Robaschik, D., Naturwissenschaftlich-Theoretisches Zentrum und Sektion Physik / WB QFT der Karl-Marx-Universität, Karl-Marx-Platz, DDR-7010 Leipzig; KMU-NTZ-89-09
QUANTUM FIELD THEORY WITH EXTERNAL POTENTIALS CONCENTRATED ON PLANES - I. FEYNMAN PROPAGATORS

Hietarinta, J., and Hirota, R., Department of Physical Sciences, University of Turku, 20500 Turku, Finnland; TURKU-FTL-R175
MULTIDROMION SOLUTIONS TO THE DAWEY-STEWARTSON EQUATION

Hietarinta, J., Department of Physical Sciences, University of Turku, 20500 Turku, Finnland; TURKU-FTL-R176
HIROTA'S BILINEAR METHOD AND PARTIAL INTEGRABILITY

Itzykson, C., Service de Physique Théorique, C.E.N. Saclay, F-91191 Gif-sur-Yvette Cedex, France; Advanced Studies in Pure Mathematics 19, 1989, Integrable Systems in Quantum Field Theory and Statistical Mechanics, pp. 287-346
FROM THE HARMONIC OSCILLATOR TO THE A-D-E CLASSIFICATION OF CONFORMAL MODELS

Jarfi, M.[1], Lazrak, O.[1], Le Yaouanc[2], Oliver, L.[2], Pène, O.[2], and Raynal, J.-C.[2], [1]Lab. de Physique Théorique, Faculté des Sciences de Rabat, Ave. Ibn Battouta, BP 1014, Rabat, Maroc, [2]Lab. de Physique Théorique et Hautes Energies, Bât. 211, Université de Paris-Sud, 91405 Orsay Cedex, France; LPTHE ORSAY 89/26, June 1989
RELEVANCE OF BARYON-ANTIBARYON DECAYS OF B_d^0 , $\bar{B}_d^0$ IN TESTS OF CP VIOLATION

Jaffe, A.[1], and Osterwalder, ETH Zentrum, CH-8092 Zürich, Switzerland; [1]Harvard University, Cambridge; HUTMP 89/B242, Dec. 14, 1989
WARD IDENTITIES FOR NON-COMMUTATIVE GEOMETRY

Karner, G., SFB 237, Institut für Mathematik, Ruhr-Universität Bochum, 4630 Bochum, FRG; SFB 237 - Preprint Nr. 77, January 1990
THE DYNAMICS OF PERIODICALLY KICKED QUANTUM PARTICLES

Kuusela, T., and Hietarinta, J., Wihuri Physical Laboratory and Department of Physical Sciences, University of Turku, 20500 Turku, Finnland; TURKU-FL-R172
NUMERICAL, EXPERIMENTAL, AND ANALYTICAL STUDIES OF THE DISSIPATIVE TODA LATTICE – I. THE BEHAVIOUR OF A SINGLE SOLITARY WAVE

Leon, J.JP., Boiti, M., and Pempinelli, F., Laboratoire de Physique Mathématique, U.S.T.L., 34060 Montpellier Cedex 01, France; PM/89-17, June 1989
SPECTRAL CHARACTERIZATION OF 2-D NONLINEAR COHERENT STRUCTURES

Lott, J., Institut des Hautes Etudes Scientifiques, 35, route de Chartres, 91440 Bures-sur-Yvette, France; IHES/P/89/75, October 1989
TORSION CONSTRAINTS IN SUPERGEOMETRY

Macris, N., and Martin, Ph.A., Institut de Physique Théorique - Ecole Polytechnique Fédérale de Lausanne, CH-1015 Lausanne, Switzerland
IONIZATION EQUILIBRIUM IN THE ELECTRON-PROTON GAS

Macris, N., and Martin, Ph. A., and Pulé, J., Institut de Physique Théorique, Ecole Polytechnique Fédérale de Lausanne, PHB-Ecublens, CH-1015 Lausanne, Switzerland
A STATISTICAL MECHANICAL MODEL FOR EQUILIBRIUM IONIZATION

Michel, L., Institut des Hautes Etudes Scientifiques, 35, route de Chartres, 91440 Bures-sur-Yvette, France; IHES/P/89/73, Octobre 1989
CPVARIANT SYMMETRIC NON-ASSOCIATIVE ALGEBRAS ON GROUP REPRESENTATION

Mickelsson, J., Research Institute for Theoretical Physics, University of Helsinki, Siltavuorenpenger 20 C, SF-00170 Helsinki 17, Finland; HU-TFT-90-2, January 14, 1990
ON THE HAMILTONIAN APPROACH TO COMMUTATOR ANOMALIES IN 3 + 1 DIMENSIONS

Mickelsson, J., Research Institute for Theoretical Physics, University of Helsinki, address see above; HU-TFT-90-1, January 14, 1990
ON QUANTIZATION OF A YANG-MILLS SYSTEM WITH FERMIONS IN 1 + 1 DIMENSIONS

Narnhofer, H., and Thirring, W., Institut für Theoretische Physik, Universität Wien; UWThPh-1989-73
ON QUANTUM FIELD THEORIES WITH GALILEI-INVARIANT INTERACTIONS

Narnhofer, H., and Thirring, W., Institut für Theoretische Physik, Universität Wien; UWThPh-1989-70
A MODEL FOR A DIA-ELECTRIC

Narnhofer, H., Pflug, A., and Thirring, W., Institut für Theoretische Physik, Universität Wien; UWThPh-1989-27
MIXING AND ENTROPY INCREASE IN QUANTUM SYSTEMS

Narnhofer, H., Institut für Theoretische Physik, Universität Wien, Boltzmanngasse 5, A-1090 Wien; UWThPh-1989-51
K-AUTOMORPHISMS IN QUANTUM THEORY

Papoyan, Vl. V.[1], and Zagrebnov, V.A.[2], [1]Department of Theoretical Physics, Yerevan State University, Yerevan 375 049, Armenien SSR, [2]School of Theoretical Physics, Dublin Institute for Advanced Studies, 10 Burlington Road, Dublin 4, Ireland, DIAS-STP 89-32
ON GENERALIZED BOSE-EINSTEIN CONDENSATION IN THE ALMOST-IDEAL BOSON GAS

Paveri-Fontana, S.L., van der Mee, S.V.M., and Zweifel, P.F., Dipartimento di Matematica "F. Enriques", Via C. Saldini, 50, 20133 Milano, Italia; Quaderno n. 29/1989
A NEUTRAL GAS MODEL FOR ELECTRON SWARMS

Paveri-Fontana, S.L., Dipartimento di Matematics "F. Enriques", Via C. Saldini, 50. 20133, Milano, Italia; Quaderno n. 30/1989
PARTICLE TRANSPORT IN A MOVING MEDIUM: KINETIC THEORY VS. DIFFUSION THEORY

Penrose, O.[1], and Fife, P.C.[2], Department of Mathematics, Heriot-Watt University, Riccarton, Edinburgh EH14 4AS, Great Britain, [2]Department of Mathematics, The University of Utah, Salt Lake City, Utah 84112, USA
THERMODYNAMICALLY CONSISTENT MODELS OF PHASE-FIELD TYPE FOR THE KINETICS OF PHASE TRANSITIONS

Petz, D., Mathematical Institute HAS, PF. 127, H-1364 Budapest, Hungary; Preprint No. 15/90
CHARACTERIZATION OF THE RELATIVE ENTROPY OF STATES OF MATRIX ALGEBRAS

Pillet, C.-A., Départment de Physique Théorique, Université de Genève, CH-1211 Geneva 4, Switzerland; UGVA-DPT 1989/11-639
STABILIZATION OF NEEDLE-CRYSTALS BY THE GIBBS-THOMSON EFFECT

Rembielinski, J., and Tybor, W., Institute of Physics, University of Lódź, Nowotki 149/153, 90-236 Lódź, Poland; Preprint IF UL 3/90
$SU(2)_q$: BOSONIC DESCRIPTION

Rembieliński, J., and Tybor, W., address see above; Preprint IF UL 2/90
QUANTUM HEISENBERG-WEYL ALGEBRA

Rembielinski, J., address see above; Preprint IF UL 1/90
CLASSIFICATION, PROPERTIES AND APPLICATIONS OF THE MAJORANA REPRESENTATIONS OF THE REAL CLIFFORD ALGEBRAS $c^{p,q}$

Reshetikhin, N., and Smirnov, F., Mathematics Department, Harvard University, Cambridge MA 02138, USA; HUTMP 89/B246, Nov. 27, 1989
HIDDEN QUANTUM GROUP SYMMETRY AND INTEGRABLE PERTURBATIONS OF CONFORMAL FIELD THEORIES

Rex, G., Naturwiss.-Theoretisches Zentrum, Karl-Marx-Universität, Sektion Mathematik, DDR-7010 Leipzig; KMU-NTZ-89-12
A GENERALIZED HOMOTOPY METHOD FOR A SYSTEM OF NONLINEAR EQUATIONS

Ruelle, D., Institut des Hautes Etudes Scientifiques, 35, route de Chartres, 91440 Bures-sur-Yvette, France; IHES/P/89/88, December 1989
SPECTRAL PROPERTIES OF A CLASS OF OPERATORS ASSOCIATED WITH MAPS IN ONE DIMENSION

Sabatier, P.C., Laboratoire de Physique Mathématique, U.S.T.L., 34060 Montpellier Cedex, France; PM/89-08, February
ON MODELING DISCONTINUOUS MEDIA. THREE-DIMENSIONAL SCATTERING

Sabatier, P.C., address see above; PM/89-11, March
IMPEDANCE SCATTERING THEORY AND GEOPHYSICAL PROBLEMS

Seiler, R., Technische Universität Berlin MA7-2, Straße des 17. Juni 136, D-1000 Berlin 12; TU - Preprint Nr. 238
ON THE QUANTUM HALL-EFFECT

Siedentop, H., and Weikard, R., Institut für Mathematische Physik, Technische Universität Carolo-Wilhelmina, D-3300 Braunschweig; January 12, 1990
A LOWER BOUND OF SCOTT TYPE BY A NEW MICROLOCALIZATION TECHNIQUE

Shuhov, A.G.[1], Suhov, Yu.M.[1,2], and Teslenko[1], A.V., [1]Institute for Problems of Information Transmission, USSR Academy of Sciences, 19 Yermolova St., GSP - 4 Moscow, 101447 USSR, [2]School of Theoretical Physics, Dublin Institute for Advanced Studies, 10, Burlington Road, Dublin 4, Ireland; DIAS-STP 89-29
TOWARDS TIME – DYNAMICS FOR BOSONIC SYSTEMS IN QUANTUM STATISTICAL MECHANICS

Skrypnik, W.I., Institute of Mathematics of the Ukrainian SSR, Repin Street 3, Kiev 4, 252601, USSR; DIAS-STP 89-33
ON THE FUNCTIONAL INTEGRALS ASSOCIATED TO A SPECIAL GIBBS SYSTEMS WITH THREE BODY POTENTIALS

Steinmann, O., Fakultät für Physik, Universität Bielefeld, D-4800 Bielefeld 1, FRG; BI-TP 90/08

Tamura, H., Department of Mathematics, Kanazawa University, Kanazawa 920 Japan
NONLINEAR ELECTROMAGNETIC FIELDS CONFINE CHARGES

Tuan, R. Hong, Laboratoire de Physique Théorique et Hautes Energies, Université de Paris XI, bâtiment 211, 91405 Orsay, France; LPTHE Orsay 89/15, May 1989
PLANAR Φ^4 FIELD THEORY AS A STRING THEORY WITH CRITICAL DIMENSION EQUAL TO FOUR

Trân Thanh Vân, J., Université de Paris Sud, Laboratoire de Physique Théorique et Particules Elémentaires, Bâtiment 21, 91405 Orsay Cedex, France; LPTHE.Orsay 89/38
SOFT HADRONIC COLLISIONS

Wollenberg, M., Akademie der Wissenschaften der DDR, Karl-Weierstrass-Institut für Mathematik, Mohrenstr. 39, Berlin, DDR-1086; Preprint P-MATH-41/89
SCALING LIMITS AND TYPE OF LOCAL ALGEBRAS OVER CURVED SPACE-TIME

Zheng, Wei-mou, and Hao, Bai-lin, Institut des Hautes Etudes Scientifiques, 35, route de Chartres, 91440 Bures-sur-Yvette, France; IHES/P/89/74, Oct. 1989
APPLIED SYMBOLIC DYNAMICS

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- 10 sept. - 21 déc. 1990 : Semester on stochastic analysis. Org. : D. Nualart, S. Sanz. Inform. : Institut d'Estudis Catalans, Centre de Recerca matematica, Apartat 50, E-Q8103 Bellaterra.

DURHAM LMS SYMPOSIUM.
- 12-20 july 1990 : Main speakers D.J. Aldous [Discrete and continous trees] D.A. Dawson [Infinite dimensionnal Markov process with applications to stochastic model for behaviour] H. Kesten [Topics in percolation] P.A. Meyer, A.S. Snitzman, S.R.S. Varadhan. Information : M. Barlow Statistical Laboratory 16 Mill Lane Cambridge CB2 1SB or N.H. Bingham, Royal Holloway and Bedford New College, Egham Hill, Egham, Surrey TW20 OEX.

LISBOA.
- 06-08 june 1990 : 1st IFIP Conference on fractals. Org. : L.F. Penedo, B. Mandelbrot. Inform. : Portuguese Computer Society (API), 172-1 Av. Almirante Reis, P-1100 Lisboa.

MARSEILLE-LUMINY.
- 22-26 oct. 1990 : Journées de probabilités. Org. J. Azéma (Paris), M. Yor (Paris). Inform. : Mme A. Zeller-Meier, CIRM, Luminy Case 916, F-13288 Marseille Cedex 9.

OBERWOLFACH.
- Inform. : Math. Forschungsinstitut Oberwolfach Geschäftsstelle, 24 Albert-strasse, D-7800 Freiburg im Breislau.
- 15-21 june 1990 : Stochastic image models and algorithms. Org. : R. Azencott (Orsay), D. Geman (Amherst).
- 04-10 nov. 1990 : Wahrscheinlichkeitsmasse und Gruppen. Org. H. Heyer (Tübingen), L. Schmetterer (Wien).
- 25 nov. - 01 déc. 1990 : Stochastische Approximation und Optimierungs-problem in der Statistik. Org. : G. Pflug (Giessen), H. Walk (Stuttgart).
- 25 déc. - 01 janv. 1991 : Linear Modelle und multivariate statistische Verfahren. Org. : H. Drygas (Kassel), O. Krafft (Aachen), E. Sonnemann (Trier).

PORTOFINO.
- 21-24 may 1990 : The Simulation of random processes and fields, mathematics and application. Inform. : F. Marchetti, Univ. Genova, Dip. Mat., 4 via L.B. Alberti, I-16132 Genova.

SAINT-FLOUR.
- 01-18 juillet 1990 : Ecole d'été de calcul des probabilités. Conf. : D.L. Donoho (Berkeley) [Function estimation and the White noise model], M. Freidlin (Maryland) [Limit theorems for random processes and partial differential equations], J.F. Legall (Paris) [Propriétés fines du mouvement brownien]. Inform. : P.L. Hennequin, Math., Univ. Clermont-Ferrand, F-63177 Aubière Cedex.

SILIVRI-ISTANBUL.
- 23 juill. - 04 août 1990 : 3ème Atelier d'analyse stochastique. Org. et Inform. : H. Korezlioglu, A.S. Ustunel, ENSET, Dép. Réseaux, 46 rue Barrault, F-74634 Paris Cedex 13.

VISITORS june :Borgachev (Warwick), K. Ito, N. Ikeda, I. Shigekawa, S. Watanabe (Paris)

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r.c.p. 264

MONTPELLIER (FRANCE) ——— *NOVEMBER 30 – DECEMBER 4, 1990*

rencontre interdisciplinaire

problèmes inverses

on NONLINEAR PHENOMENA

(**) partially sponsored by GDR 264

Dear colleague,

The 1990 meeting "RCP 264" (Interdisciplinary aspects of Inverse Problems) will be held in Montpellier from **November 30** to **December 4.**

This well-known workshop has room for 70 participants. The emphasis will be made this year on **nonlinear phenomena**, applications of inverse methods to nonlinear evolution equations, nonlinear coherent structures (solitons, kinks, etc..). The usual topics on Inverse Problems, with emphasis on nonlinearity in them, will be of course welcome. We have prepared a special ad in order to attract participants putting emphasis on nonlinearity (encl.). By the way, this may be now the periodic structure of our RCP 264 Meeting: on odd years, emphasis on applied Inverse Problems, on even years, emphasis on nonlinear evolution equations, the link between them being of course theoretical Inverse Problems or methods.

A "tentative" point is the time schedule of the workshop over the Sunday, it being a way to get discounts on air travels.

We hope, among others, the presence of Professors **Ablowitz, Bertero, Bishop, Boiti, Calogero, Degasperis, Fordy, Gibbon, Grünbaum, Kaup, Manakov, Pempinelli, Pike, Remoissenet, Scott, Tabbara, Zakharov.**

As usually, we suggest the participants to prepare lectures giving either good reviews (of their own works or others) or new results.

With our best regards,

J. LEON

P.C. SABATIER

P.S. If you plan to come, give **as soon as possible** to "R.C.P.264, Département de Physique Mathématique - 34095 Montpellier Cedex 5, France", the title of your lecture and time you wish.

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If you intend to participate in the meeting, please fill in this form and mail it before 1rst September. Only those who will answer will then get the DEFINITE REGISTRATION FORM (with details, hotel booking.....) by the first week of September.

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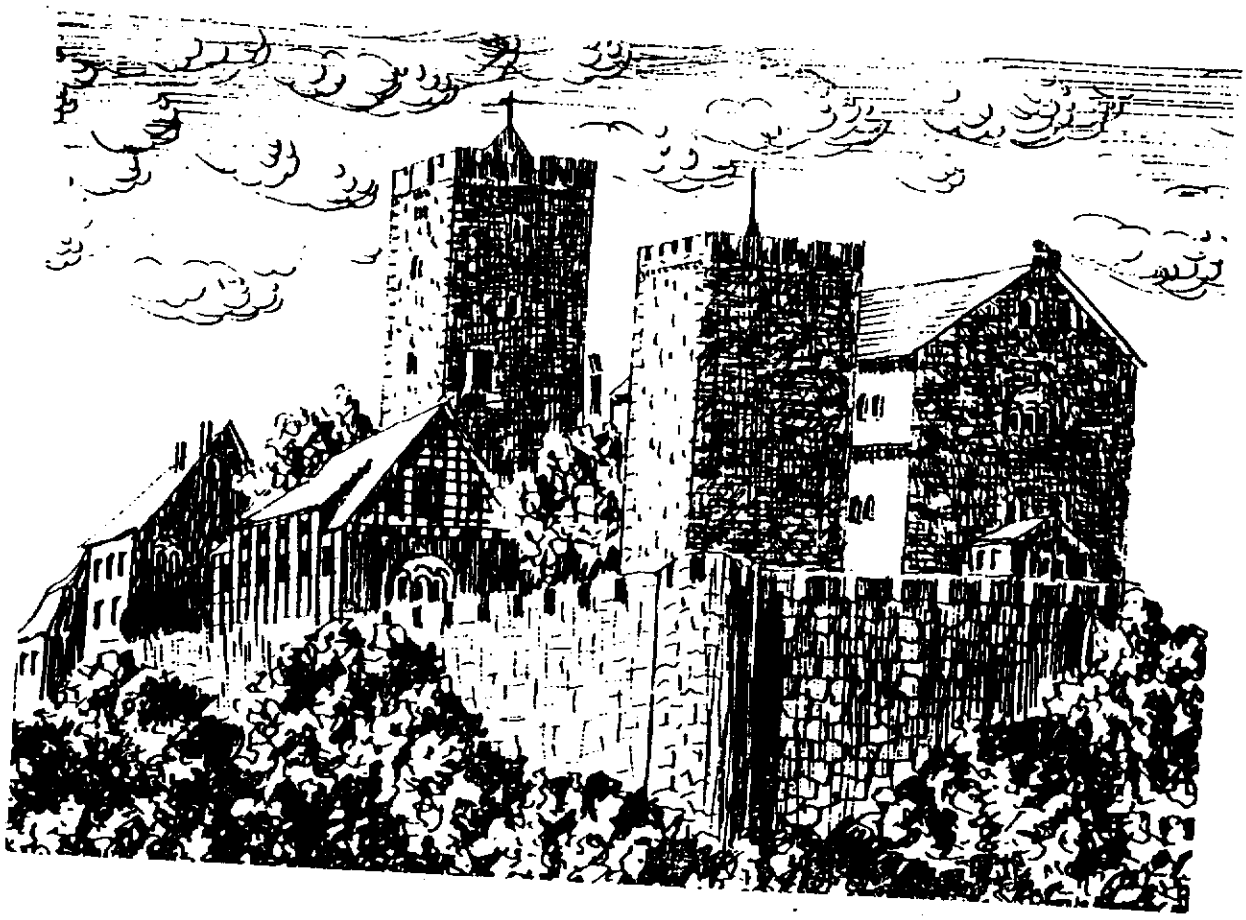

Eisenach, German Democratic Republic
September 3–8, 1990

Because of actual drastic economical and political reforms in our country it may be expected that there will be changes of the prices and also of the exchange rates of different currencies. We also cannot exclude at this moment that the conference will take place in Jena instead of Eisenach. Nevertheless,

the conference will be,

and we will do our best to ensure a good quality in the preparation and realization of the

19TH CONFERENCE ON STOCHASTIC PROCESSES AND THEIR APPLICATIONS.

The Organizing Committee

We cordially invite you to take part in the

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September 3–8, 1990
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The 19th Conference on Stochastic Processes and their Applications will be held in Eisenach, a small but historically outstanding town in the south-western part of the German Democratic Republic. The conference will last from Monday morning, September 3, through Friday evening, September 7.

ORGANIZATION

The Conference is arranged under the auspices of the Committee for Conferences on Stochastic Processes of the Bernoulli Society for Probability and Mathematical Statistics. It is organized by the Department of Mathematics of the Friedrich Schiller University Jena (GDR) in collaboration with the Karl Weierstrass Institute of Mathematics of the Academy of Sciences of the GDR, Humboldt University Berlin and Technical University Dresden.

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SCIENTIFIC PROGRAM

Topics

The following topics will be covered by the conference:

- Branching and renewal processes
- Convergence for random processes
- Filtering
- Image Processing
- Infinite Particle Systems
- Markov processes
- Percolation
- Point processes
- Quantum probability
- Queuing theory
- Random fields
- Random measures
- Stochastic calculus and martingales
- Stochastic control theory
- Stochastic geometry
- Stochastic mechanics
- Stochastic models in science and technology

Invited Speakers

As at previous conferences, a number of distinguished invited speakers will give research and survey talks on both theoretical and applied topics. The tentative list of invited speakers at present is:

L. Accardi (Rome, Italy)
L. Arnold (Bremen, FRG)
Belopolskaya (Leningrad, USSR)
Ph. Blanchard (Bielefeld, FRG)
E. Bolthausen (Berlin/West)
K. L. Chung (Stanford, USA)
R. W. R. Darling (Florida, USA)
E. B. Dynkin (Ithaca, USA)
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E. Nelson (Princeton, USA)
E. Pardoux (Marseille, France)
D. Petz (Budapest, Hungary)
E. Presutti (Rome, Italy)
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H. Spohn (Munich, FRG)
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STABILITY OF THE MOVING BUBBLES IN THE BOSE CONDENSATE

A. de Bivar-Weinholtz (C.M.A.F., 2 Av. Prof. Gama Pinto, 1699 Lisbon Codex, Portugal), M.L. Lapidus (Department of Mathematics, The University of Georgia, Athens, Georgia 30602, U.S.A.)
PRODUCT FORMULA FOR RESOLVENTS OF NORMAL OPERATORS AND THE MODIFIED FEYNMAN INTEGRAL WITH A SINGULAR COMPLEX POTENTIAL

K.A. Makarov, B.S. Pavlov (Department of Mathematical Physics, Leningrad State University, 198904 Leningrad, USSSR):
THE ONE DIMENSIONAL QUANTUM SCATTERING ON THE KANTOR BAR

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Department of Mathematics
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Gainesville, FL 32611, USA

October 1990

Obituary

With great sadness we learnt of the death of Prof. Dr. Res Jost on October 3, 1990.

From his contributions to mathematical physics, those to potential scattering and to quantum field theory stand out as lasting achievements. Jost was not only a leading mathematical physicist, he was also a great and inspiring teacher and because of his warm personality a very dear friend to many of us.

Philippe Blanchard

INTERNATIONAL ASSOCIATION OF MATHEMATICAL PHYSICS

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October 1990

IAMP NEWS BULLETIN

Election of the IAMP Executive Committee

Ballots form: 154

List of the top 24 persons in the 1990 elections (with number of votes)

1. Emch	124	13. Brydges	48
2. Sinai	104	14. Yajima	47
3. Jaffe	89	15. Truman	41
4. Fröhlich	85	16. Benguria	39
5. Dell'Antonio	81	17. Verbeure	38
6. Penrose	75	18. Seneor	36
7. Newman	60	19. Doebner	31
8. Buchholz	57	20. Winnik	28
9. Avron	53	21. Sirugue-Collin	25
10. Parthasarathy	53	22. Challifour	23
11. Todorov	51	23. Galindo	23
12. V. Jones	50	24. Kulish	20

October 2, 1990

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Treasurer:
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Department of Mathematic
University of Florida
Gainesville, FL 32611, U

To: IAMP Membership:

From: John R. Klauder:

Plans for the 1991 IAMP Congress continue to develop. The Congress will take place from July 30 through August 8, 1991, in Leipzig, GDR. As you are aware great political and economic changes are presently taking place in that country, and it is difficult to predict the situation one year from now. Nevertheless, the people of Leipzig are committed to this conference and will do whatever is necessary to make a successful meeting. Details regarding local facilities, etc., are still being developed and will be reported on in future IAMP News Bulletins. However, planning for the scientific part of the program has already begun, and the format of the conference can be shared with the IAMP membership.

The organizers of each such Congress must deal with the conflicting ideals of many presentations and a minimum number of parallel presentations. Those responsible for the 1991 Congress have addressed this problem in the following way:

Generally speaking, the mornings will be devoted to plenary and review lectures with no parallel sessions. The afternoons will each be devoted to two topical sessions each having two hours of lectures and two hours devoted to an upgraded poster session, arranged so that all lectures may be heard if desired. The topical poster session will consist of ten posters and time will be made for formal ten minute talks about each such poster. The organization of the topical poster session will be under the responsibility of the topical session organizer, and half of the posters will be solicited while the other half will be selected from posters submitted to the session organizer. Posters not selected for a topical poster session as well as other submitted posters will be displayed in a general poster session for which a special time period will be set aside.

When session organizers have been identified, the IAMP membership will be informed of their names, the topics they are charged with overseeing, and the rules for poster submission. This will enable those who wish to submit posters to do so.

Furthermore, it is planned to have a two tier registration fee. Although the amounts are not yet fixed firmly, it is planned to charge IAMP Members in good standing less than those individuals who are not IAMP members or not Members in good standing. You may wish to pay up your IAMP dues or tell your non-member friends who may wish to attend the 1991 Congress to consider joining the IAMP; individuals may join by writing to the IAMP President.

RENORMALIZATION GROUP - 91

Conference at JINR, Dubna, USSR, September 3-6 , 1991

Preliminary Information

Joint Institute for Nuclear Research is planning to hold a second conference on Renormalization Group in the beginning of next autumn. The first one took place at Dubna about 4 years ago (August of 1986) and was devoted to the application of RG ideology and technique in various fields of theoretical physics. Specialists in quantum field theory, critical phenomena, turbulence, polymers, dynamical systems and some other fields were contributing. (One can get more detailed information from the proceedings volume entitled *Renormalization Group* (Eds. D.V.Shirkov, D.I.Kazakov and A.A.Vladimirov, World Scientific Publ. 1988)

If you intend to participate in the meeting, please fill this form and mail it before March 1, 1991. Only those who will answer will get the Definite Registration Form with all the details.

Name
Institution
Address

Telephone
Fax
Bitnet
Telex

Scientific research field

Send this form to:

Prof. D.V.Shirkov
Laboratory of Theoretical Physics
Joint Institute for Nuclear Research
Head Post Office, P.O. Box 79
Moscow USSR
Telex: 412 621 DUBNA SU ; Fax: 7 095 2002283

CONFERENCE ANNOUNCEMENT

Date:	**June 12-15, 1991**
Title:	**Dynamics Days Berlin, 12^{th} workshop**
Location:	**Berlin, Germany**
Contact:	G. Eilenberger IFF, KFA Jülich Postfach 1913 D-5170 Jülich 1, Germany Tel.: (+49) 2461-61 4073 Fax : (+49) 2461-61 2410 Telex: 833556-0 kf d Bitnet: IFF054 at DJUKFA11
Deadline:	Application + Abstracts: **April 30, 1991**
Language:	**English**
Conference Fee:	**50,- DM**

REPORTS ON MATHEMATICAL PHYSICS, THE EDITORS
COMMITTEE OF PHYSICS, POLISH ACADEMY OF SCIENCES
INSTITUTE OF PHYSICS, NICHOLAS COPERNICUS UNIVERSITY

June 25, 1990.

ANNOUNCEMENT

As in recent years we organize the

XXIII SYMPOSIUM ON MATHEMATICAL PHYSICS

connected with the *Annual Meeting of the Editorial Board of ROMP* which will be held at the Institute of Physics, Nicholas Copernicus University in Toruń, Poland, December 3–6, 1990.

The aim of the Symposium is to discuss current and new problems of mathematical physics and mathematics connected with the physical research. Some of the main subjects include:

- information dynamics and thermodynamics
- quantum information and measurement, quantum optics and communications
- differential geometry methods, gauge fields and quantum groups
- nonlinear dynamics and control
- kinetic theory.

We plan a number of invited lectures (45 minutes) and contributed papers (20 minutes).

Reservations will be made at the hotel "Helios" in Toruń from Sunday evening, December 2, through Friday morning, December 7. The cost of a single room at the hotel is about $40.00 per night. Optionally, guest rooms in the University dormitories (mostly double occupancy) will be available for the participants at our expense. We shall cover the living costs in Toruń (including the hotel but not the travel costs) for all the invited speakers.

The deadline for applications is October 20, 1990. After receiving your confirmation (on the enclosed questionaire) we shall send you an official invitation and the preliminary programme of the Symposium.

Miłosz R. Michalski
Head, Organizing Committee

Roman S. Ingarden
Editor-in-Chief

Send correspondence to:

Dr. M. R. Michalski
Institute of Physics, Nicholas Copernicus University
Grudziądzka 5/7
87–100 Toruń, Poland.

QUESTIONNAIRE

Do you plan to attend the XXIII Symposium on Mathematical Physics in Toruń, December 3–6, 1990?

YES **NO**

If yes, please fill in the following data:

Name (first, last) .....
Degree and position .....
Date and place of birth .....
Citizenship .....
Home address .....
..... phone: .....
Address for communication .....
.....
phone: ..... tlx: .....
E-mail: .....
Title of the contributed paper .....
.....
.....

I require the following hotel reservations in Toruń:

December	2/3	3/4	4/5	5/6	6/7

I prefer to stay in a guest room in the University dorm ..... with a smoker ..... a nonsmoker ..... no roommate[1] .....
I am coming alone ..... with accompanying person .....
Other remarks or requests .....
.....

I understand that in the event of cancellation received after November 20, 1990, expenses due to the non-use of reservations may be charged to me.

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

Please, send this questionnaire to:

Dr. M. R. Michalski
Institute of Physics, Nicholas Copernicus University
Grudziądzka 5/7
87–100 Toruń, Poland.

[1] based on availability

r.c.p. 264

MONTPELLIER (FRANCE) ——— NOVEMBER 30 - DECEMBER 4, 1990

rencontre interdisciplinaire

problèmes inverses

(**) partially sponsored by GDR 264

NONLINEAR YEAR

Dear colleague,

We recall that the RCP 264 meeting will be held in Montpellier from November 30th to December 4, 1990.

By now, you should have received the first announcement and an add putting the emphasis on nonlinear aspects. This add has led to so many questions that we want to be more clear.

a) All lecturers talking on Inverse Problems or inverse methods and their applications to nonlinear evolution equations are welcome: we only wish to encourage and emphasize the nonlinear aspects of this research in the present year (1990).

b) The nonlinear phenomena which are studied are cited on the add. They are not the chaotic phenomena...etc, but the coherent structures and more generally the evolutions that can be studied by means of inverse methods or those which look like them or are related to them.

c) Nonlinear aspects of Inverse Problems are also encouraged.

With my best regards,

P.C. SABATIER

DEPARTEMENT de physique mathématique
UNIVERSITE DES SCIENCES & TECHNIQUES DU LANGUEDOC
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In recent years, infinite dimensional holomorphy has been the object of intensive research, both in its own right and because of the often unexpected, nontrivial applications to other areas such as, for instance, potential theory and quantum field theory. Much of the impetus for the study of holomorphic functions in infinite

with a new editorial policy

Helvetica Physica Acta

Scope

HELVETICA PHYSICA ACTA has recently changed its editorial policy and is now essentially specialized in *theoretical and mathematical physics*. Priority is given to high quality original contributions from the various branches of these fields and to occasional review papers.

Submission of manuscripts

Manuscripts should be submitted to the Managing Editor and prepared according to the instructions given on the inside back cover of each issue. Page charges have been suppressed.

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DOCUMENT LIST 35: Jan-July 1990

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DIAS-STP-90-

-01: E. Buffet, & R.F. Werner: A counter-example in coagulation theory.

-02: J. Balog, L. Fehér, P. Forgács, L. O'Raifeartaigh, & A. Wipf: Kac-Moody realization of W-algebras.

-03: H.J.W. Müller-Kirsten, & D.H. Tchrakian: A Skyrme-like lump in 2 Euclidean dimensions. *Appeared in J. Phys. A.3(1990)*

-04: J. Balog, L. Dabrowski, & L. Fehér: Classical r-matrix and exchange algebra in WZNW and Toda theories. *To appear in Phys. Lett. B*

-05: A.G. Shuhov, & Yu.M. Suhov: Towards time-dynamics for bosonic systems in quantum statistical mechanics.

-06: T.C. Dorlas: Renormalization group analysis of a simple hierarchical fermion model.

-07: M. Fannes, B. Nachtergaele, & R.F. Werner: Valence bond states on quantum spin chains as ground states with spectral gap.

-08: D.H. Tchrakian: Solitons in $\mathbf{R}_3$ with winding number n. *To appear in Phys. Lett. B.*

-09: D.H. Tchrakian: Symmetry breaking Skyrme models in $\mathbf{R}_d$.

-10: J. Burzlaff, & A.D. Wood: Optical tunnelling from one-dimensional square well potentials.

-11: M. Fannes, B. Nachtergaele, & R.F. Werner: Finitely correlated states on quantum spin chains.

-12: J.R. McConnell: Theory of nuclear magnetic relaxation by anisotropic chemical shift II. *To appear in Physica A*

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Preprints (received in Dubna)

S.E. Choremshantsev (Steklov Mathematical Institute, Leningrad Department, Leningrad, USSR):
HAMILTONIANS WITH ZERO-RANGE INTERACTIONS SUPPORTED ON A BROWNIAN PATH

P. Osipov (Institute for Mathematics, 630090 Novosibirsk, USSR):
TWO-DIMENSIONAL RANDOM FIELDS AS SOLUTIONS OF STOCHASTIC DIFFERENTIAL EQUATIONS

A.K. Motovilov (Forest Engineering Institute, SU-163007 Arkhangelsk, USSR):
THE REMOVAL OF AN ENERGY DEPENDENCE FROM THE INTERACTION

PREPRINTS (RECEIVED IN GAINESVILLE)

NOTE entries for this listing should be addressed to:

John R. Klauder, **IAMP News Bulletin**, Department of Mathematics, University of Florida, Gainesville, FL 32611 USA

Abhay Ashtekar, Physics Department, Syracuse University, Syracuse, NY 13244–1130
LESSONS FROM 2+1 DIMENSIONAL QUANTUM GRAVITY

Abhay Ashtekar, Physics Department, Syracuse University, Syracuse, NY 13244–1130; **Luca Bombelli**, Department of Mathematics, University of Calgary, Calgary, Alberta T2N 1N4, Canada; and **Oscar Reula**, FAMAF, University of Córdoba, Argentina
THE COVARIANT PHASE SPACE OF ASYMPTOTICALLY FLAT GRAVITATIONAL FIELDS

Guy Battle, Department of Mathematics, Texas A & M University, College Station, TX 77843, and **Paul Federbush**, Department of Mathematics, University of Michigan, Ann Arbor, MI 48109
THE PHASE CELL APPROACH TO THE NON–LINEAR σ–MODEL, I, LATTICE–CONTINUUM DUALITY

THE PHASE CELL APPROACH TO THE NON–LINEAR σ–MODEL, II, MODIFIED BLOCK SPIN AND LOCAL STABILITY

B. Broda, Institute of Physics, University of Lódź, Nowotki 149/153, PL–90–236 Lódź, Poland
A THREE–DIMENSIONAL COVARIANT APPROACH TO MONODROMY (SKEIN RELATIONS) IN CHERN–SIMONS THEORY

TOPOLOGICAL–FIELD–THEORY APPROACH TO THE NON–ABELIAN STOKES THEOREM

WILSON LOOPS IN TWO–DIMENSIONAL (TOPOLOGICAL) YANG–MILLS THEORY

Giovanni M. Cicuta, Dipartimento di Fisica, Università di Bari, and INFN, Sezione di Bari, Via Amendola 173, 70126 Bari, and **Emilio Montaldi**, Dipartimento de Fisica, Università di Milano, and INFN, Sezione di Milano, Via Celoria 16, 20133 Milano
MATRIX MODELS AND MARGINAL OPERATORS IN THE PLANAR LIMIT

J. Dimock, Department of Mathematics, SUNY at Buffalo, Buffalo, NY 14214, and **T.R. Hurd**, Department of Mathematics, McMaster University, Hamilton, Ontario L8S 4K1, Canada
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A RENORMALIZATION GROUP ANALYSIS OF INFRARED QED

Paul Federbush, Department of Mathematics, University of Michigan, Ann Arbor, MI 48109
A HIERARCHIICAL SMALL FIELD NON–LINEAR SIGMA MODEL

Palle E.T. Jorgensen, University of Iowa, Iowa City, IA 52242, and **Geoffrey L. Price**, U.S. Naval Academy, Annapolis, MD 21402
INDEX THEORY AND SECOND QUANTIZATION OF BOUNDARY VALUE PROBLEMS

S. Malinowski, University of Lódź, Institute of Physics, ul. Nowotki 149/153 90–236 Lódź, Poland
THE PHYSICAL QUANTITIES AND THEIR LOCALIZATION IN THE CASE OF DISPERSIVE MEDIA

THE SYMMETRY GROUPS IN THE CASE OF THE SPATIAL DISPERSION OF ELECTROMAGNETIC WAVE

Edward P. Osipov, Sonderforschungsbereich 237, "Unordnung und grosse Fluctuationen", Bochum — Essen — Düsseldorf, Federal Republic of Germany, and Department of Theoretical Physics, Institute for Mathematics, 630090 Novosibirsk 90, USSR
TWO–DIMENSIONAL RANDOM FIELDS AS SOLUTIONS OF STOCHASTIC DIFFERENTIAL EQUATIONS

Tchavdar D. Palev and **Nedjlka I. Stoilova**, Institute for Nuclear Research and Nuclear Energy, Department for Theoretical Physics, Blvd. Lenin 72, 1784 Sofia, Bulgaria
FINITE–DIMENSIONAL REPRESENTATIONS OF THE BASIC LIE SUPER-ALGEBRA $A(1/1)$ IN A $sl(2)\oplus sl(2)$ BASIS

Preprints Received in Kyoto

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Victor ALDAYA, Jose NAVARRO-SALAS
Departamento de Física Teorica, Facultad de Físicas, Universidad de Valencia, Burjassot 46100-Valencia, Spain, and IFIC (Centro Mixto Universidad de Valencia-C.S.I.C.), Spain; FTUV-90-12, IFIC-90-9.
Higher Order Polarizations on the Virasoro Group and Anomalies.

V. ALDAYA[1], J. R. KLAUDER[2,3], J. NAVARRO-SALAS[1,2]
[1]Departamento de Física Teòrica, Facultad de Físicas, Universidad de Valencia, Burjassot (Valencia), Spain and I.F.I.C. (Centro-Mixto Universidad de Valencia-C.S.I.C.), Spain; [2]The Blackett Laboratory, Imperial College London SW7 2BZ, United Kingdom; [3]Departments of Physics and Mathematics, University of Florida, Gainsville, FL 32611, USA; FTUV-90-27, IFIC-90-23.
Group Quantization of the Affine Field Model for Gravity and Non-Standard Representations of the $SU(1,1)$-Kac-Moody Group.

Asao ARAI
Department of Mathematics, Hokkaido University, Sapporo 060, Japan; Hokkaido University Preprint Series in Mathematics # 72 (to be published in J. Math. Phys.)
An Asymptotic Analysis and its Application to the Nonrelativistic Limit of the Pauli-Fierz and a Spin-Boson Model.

Asao ARAI[1], Itaru MITOMA[2]
[1]Department of Mathematics, Hokkaido University, Sapporo 060, Japan; [2]Department of Mathematics, Saga University, Saga 840, Japan; Hokkaido University Preprint Series in Mathematics # 76.
De Rham-Hodge-Kodaira Decomposition in ∞-dimensions.

Huzihiro ARAKI
Research Institute for Mathematical Sciences, Kyoto University, Kyoto 606, Japan; RIMS-690.
Master Symmetries of the XY Model.

J. A. de AZCARRAGA†, M. S. RASHID+, W. J. ZAKRZEWSKI†
†Departamento de Física Teórica and IFIC (CSIC), Universidad de Valencia, 46100-Burjasot (Valencia), Spain; +Department of Mathematical Sciences, University of Durham, Durham DH1 3NE, England; IFIC90-13, April 1990, FTUV90-16.
Skyrme-Like and Topological Terms in Sigma Models.

Takayuki FURUTA
Department of Mathematics, Faculty of Science, Hirosaki University, Bunkyo-cho 3, Hirosaki, Aomori 036, Japan; 1980 Mathematics Subject Classification (1985 Revision), Primary 47B15.
Two Operator Functions with Monotone Property.

Yasuyuki KAWAHIGASHI
Department of Mathematics, Faculty of Science, University of Tokyo, Hongo, Tokyo 113, Japan; 1980 Mathematics Subject Classification (1985 Revision). Primary 46L40; Secondary 46L55.
Automorphisms Commuting with a Conditional Expectation onto a Subfactor with Finite Index (Preliminary version).

Akitaka KISHIMOTO
Department of Mathematics, Hokkaido University, Sapporo 060, Japan; Hokkaido University Preprint Series in Mathematics # 74.
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Akitaka KISHIMOTO
Address see above,
Hokkaido University Preprint Series in Mathematics # 75.
Actions of Finite Groups on Certain Inductive Limit C^*-Algebras.

Hiroshi NAKAZAWA
Department of Physics, Kyoto University, Kyoto 606, Japan; to appear in J. Math. Phys.
Numerical Procedures for Sample Structures on Stochastic Differential Equations.

Masanao OZAWA
Lyman Laboratory of Physics, Harvard University, Cambridge, MA 02138, USA (On leave of absence from the Department of Mathematics, College of General Education, Nagoya University, Nagoya 464, Japan; HUTP-90/B002
Does A Conservation Law Limit Position Measurements?

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Aldaya V., Klauder J.R. and Navarro-Salas J., Departamento de Fisica Teorica, Facultad de Fisicas, Universidad de Valencia, Burjassot (Valencia), Spain and I.F.I.C. (Centro-Mixto Universidad de Valencia-C.S.I.C.), Spain, The Blackett Lab., Imperial College London SW7 2BZ, United Kingdom, Dept. of Physics and Math., Univ. of Florida, Gainesville, FL 32611, USA, FTUV-90-27, IFIC-90-23
GROUP QUANTIZATION OF THE AFFINE FIELD MODEL FOR GRAVITY AND NON-STANDARD REPRESENTATIONS OF THE SU(1,1) -KAC-MOODY GROUP

Amiet J.-P. and Cibils M.B., Institute de Physique, Université de Neuchâtel, Rue A.-L. Breguet 1, CH-2000 Neuchâtel, Switzerland
DESCRIPTION OF QUANTUM SPIN USING FUNCTIONS ON THE SPHERE S^2

Asch J.[1] and Potthoff J.[2], [1]Technische Universität Berlin and [2]Louisiana State University, Baton Rouge, BiBoS, Universität Bielefeld, Bielefeld
ITÔ'S LEMMA WITHOUT NON-ANTICIPATORY CONDITIONS

Azcárraga J.A. and Izquierdo J.M., Departamento de Fisica Teorica and IFIC (CSIC), Universidad de Valencia, E-46100-Burjasot (Valencia), Spain, FTUV 90-38, IFIC 90-33, July 1990
ANOMALIES FROM THE WESS-ZUMINO-WITTEN ACTION

Azcárraga J.A., Frydryszak A. and Lukierski J., address see above, to appear in Phys. Lett. B
SUPERSYMMETRY CURRENTS AND WZ-LIKE TERMS IN (SUPER-SYMMETRY)^2 MODELS

Balog J., Dabrowski L. and Fehér L., Dublin Institute for Advanced Studies, 10 Burlington Road, Dublin 4, Ireland, DIAS-STP-90-23
A NEW QUANTUM DEFORMATION OF SL(3)

Barata J.C.A. and Fredenhagen K., Freie Universität Berlin, Fachbereich Physik, Institut für Theorie der Elementarteilchen, Arnimallee 14, 1000 Berlin 33, FRG, FUB HEP 90-17
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Benatti F., Narnhofer H. and Benatti F.[2], Inst. für Theor. Physik der Universität Wien, [2]Department of Physics, Queen Mary and Westfield College, London
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Birmingham D. and Rakowski M., Dublin IAS, Burlington Road, Dublin 4, Ireland, DIAS-STP-90-31
THE β-FUNCTION IN TOPOLOGICAL SIGMA MODELS

Boiti M., Leon J. and Pempinelli F.[2], Dipartimento di Fisica dell'Università and Sezione I.N.F.N., 73100 Lecce, Italy, [2]Department de Physique Mathématique, U.S.T.L., 34095 Montpellier, France
WAVES IN THe DAVEY-STEWARTSON EQUATION

Boiti M., Pempinelli F., Pogrebkov A.K. and Polivanov M.C., Dipartimento di Fisica dell'Università and Sezione INFN, 73100 Lecce, Italia
NEW FEATURES OF BÄCKLUND AND DARBOUX TRANSFORMATIONS IN 2+1 DIMENSIONS

Borchers H.J. and Yngvason J., Raunvisindastofnun Hasklans, Dept. of Physics, University of Iceland, Dunhaga 3, 107 Reykjavik, RH-02-90
LOCAL NETS AND SELF ADJOINT EXTENSIONS OF QUANTUM FIELD OPERATORS

Borgs Ch., Kotecky R. and Miracle-Solé S., Department of Mathematics, Harvard University Cambridge, MA 02138 and CNRS Luminy, Case 9o7, CPT, F-13288 Marseille Cedex 9, France, Harvard, HUTMP 90/B265 and CPT-90/PE.2422
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Bricmont J. and Kupiainen A., Research Inst. for Theor. Physics, University of Helsinki, Siltavuorenpenger 20 C, SF-00170 Helsinki, Finland, HU-TFT-90-53
RANDOM WALKS IN ASYMMETRIC RANDOM ENVIRONMENTS

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