

Scientific Report for the year 1995

Vienna, ESI-Report 1995

February 25, 1996

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**ERWIN SCHRÖDINGER INTERNATIONAL INSTITUTE
OF MATHEMATICAL PHYSICS,
SCIENTIFIC REPORT FOR THE YEAR 1995**

ESI, Pasteurgasse 6/7, A-1090 Wien, Austria

February 25, 1996

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General remarks

The directors of ESI changed. From the beginning of September 1995 onwards the director of ESI is Klaus Schmidt, and deputy director is Peter Michor. In this year also fell the decision that ESI should change its location. It will occupy $840m^2$, half of the second floor, in Boltzmannngasse 9, A-1090 Wien. The new location is twice as large and nearer to the institutes of Theoretical Physics and Mathematics. A famous architect (proposed by the Minister of Science and Arts, Dr. Rudolf Scholten) is planning and supervising the adaptation of the site. We hope that ESI will be relocated in mid-1996.

In the first half of the year 1995 ESI was host to 216 visitors. There were 108 preprints contributed to the preprint series, many of them still belong to programs from 1994, and 89 seminar talks or ESI-Colloquia were given. A conference was organized in Vienna, on Complex Analysis, and ESI took part in the organization of two more conferences abroad. The program on condensed matter theory included 4 workshops of 2 weeks each.

15th Winter school on geometry and physics, January 14–21, 1995 Srni, Bohemian forest, Czech republic.

Noncommutative differential geometry, Czech Republic, Castle Třešť, May 7 – 13, 1995

Gibbs random fields and phase transitions; this program started with a small workshop with 26 participants in Churáňov (Czech Republic).

Winter School in Geometry and Physics

The traditional winter school in geometry and physics which takes place for one week each January since 1980 in a picturesque village in the Czech parts of the Bohemian mountains will be a joint enterprise of the Czech society of mathematicians and physicists and ESI, from 1994 onwards. Usually there are proceedings, which are published as a supplement of the 'Rendiconti Matematici di Palermo'. The first conference with ESI-participation was in the period January 15–22, 1994, the proceedings for it are in preparation. The second winter school took place in Srni, January 14–21, 1995, proceedings will be published again as a supplement of the 'Rendiconti Matematici di Palermo'.

ACTIVITIES IN 1995

Two-dimensional quantum field theory

The lively developments in this field were reflected also in the continuation of this programme (which started in 1993 and had a continuation on a small scale in 1994). This time altogether ten visitors spent around two to four weeks at ESI.

The main subjects treated were Integrable Lattice Spin Models and Quantum Groups (Faddeev, Scheunert, Jurco, Kulish), Conformal Quantum Field Theory (Todorov, Niemi, Wipf) and Noncommutative Geometry (Coquereaux, Presnajder). For all three subjects, papers were delivered and seminars held. Some papers are still in preparation. During a one-day visit, Kuchar reported on the latest news concerning the Quantum Hall effect.

Quantum groups are still of great interest, and the recent developments around the reflection equation and applications to q -deformed Minkowski spaces were treated. The problem of quantizing the Liouville equation has been dealt with also.

New soluble models of conformal quantum field theory are obtained through the study of the Khizhnik-Zamolodchikov equation. Various versions of the WZNW-model led to a publication by the Bulgarian group.

We used the ideas of noncommutative geometry to obtain a cut-off procedure for quantum field theory. Scalar fields, gauge fields and spinor fields in two dimensions can be handled. Most surprisingly our method allows to handle supersymmetry without breaking it.

After finishing this project it is a pleasure for me to thank all people involved (visitors and staff) for providing an excellent atmosphere, so that scientific exchange on this high level was possible. Since four of our guests lectured this year also at the Schladming Winter school, the whole Austrian physics community, as well as 140 participants profitted from the activity in Vienna.

H. Grosse

The following preprints were contributed in this program: [214], [217], [225], [233], [234], [244]

Complex Analysis

Organized by F. Haslinger.

The activities of this program were spread over the months January, February and March 1995. The main topics were CR-manifolds and functions, geometric aspects of complex analysis, application of functional analysis to complex analysis and partial differential equations, $\bar{\partial}$ -equations, Bergman and Szegö kernels.

Some colleagues stayed for a longer period at the ESI (Daryl Geller, Takeo Ohsawa, Peter Greiner, John Wermer, David Tartakoff) most of the participants concentrated their visit around the week Feb. 20 - Feb. 24, where a workshop took place with 20 interesting 45 minutes lectures (see the following list):

- B. Berndtsson, Sweden: Some problems connected with interpolation and sampling of analytic functions.
- J. Bros, France: Transformations of Fourier-Laplace type and related holomorphy domains on the complex hyperboloid.
- R. Dworkin, Canada: Type functions for CR manifolds.
- Ch. Epstein, IHES, France: A relative index for CR-structures.
- Laura Geatti, Italia: Complex symmetric spaces.
- D. Geller, USA: Partial differential equations on the Heisenberg group.
- P. C. Greiner, Canada: Hamiltonian mechanics and fundamental solutions for subelliptic operators.
- A. Iordan, France: Compactness of the Neumann operator for piece-wise smoothly bounded strictly pseudoconvex domains.
- M. Langenbruch, Deutschland: Splitting of the $\bar{\partial}$ -complex.
- L. Lempert, USA: Algebraic approximations in analytic geometry.
- J. McNeal, USA: The Bergman and Szegö projections on convex domains.
- R. Meise, Deutschland: Extension and lacunas of solutions of linear partial differential equations.
- S. Momm, Deutschland: Partial differential equations for analytic functions on compact convex sets in \mathbb{C}^N .
- P. Müller, Austria: The Banachspace $H^1(X, d, \mu)$ (isomorphic classification).

- T. Ohsawa, Japan: On the variation of the density and an application to interpolation problems.
 H.S. Shapiro, Sweden: Partial differential equations and analytic continuation.
 R. Szöke, Ungarn: Hypercomplex structures on the tangent bundles of hermitian symmetric spaces.
 D. Tartakoff, USA: The smoothness of solutions to the $\bar{\partial}$ -equation and applications.
 H. Upmeyer, Deutschland: Toeplitz operators and geometric quantization in several complex variables.
 V. Văjăitu, Romania: On Levi q -convexity.
 D. Vogt, Deutschland: Solution operators for linear partial differential operators of second order and fundamental solutions with support in a half space.
 J. Wermer, USA: Interpolation bodies in \mathbb{C}^n .

There were many further informal seminars combining various special fields of the visitors.
 Contributions to the ESI preprint series: [195], [199], [203], [215], [216], [232], [253]

Noncommutative Differential Geometry

Organized by Alain Connes and Michel Dubois-Violette, local responsible P. Michor.

Central part of this program was a conference in the Czech Republic, in the castle of Třešť, May 8 – 13, which was organized by the Union of Czech Mathematicians and Physicists, the Erwin Schrödinger Institute of Mathematical Physics in Vienna, together with the Institute of Mathematics and Institute of Physics of Czech Academy of Sciences and the Faculty of Mathematics and Physics of Charles University. The most exciting event at the conference was a new noncommutative representation of the standard model by A. Connes, which restricts some of the free parameters more tightly than the old one. The program of this conference was as follows:

PLENARY LECTURES:

- Chamseddine A.: Unification, gravity and supersymmetry in NG
 Connes A.: Geometry from the spectral point of view
 Coquereaux R.: Fractal triangular dissections, Jones algebras and NG
 Doplicher S.: The small scale structure of spacetime, gravitational stability and quantum field theory
 Dubois-Violette M.: Connections on certain classes of bimodules and reality conditions in NG
 Gawedzki K.: Conformal field theory and NG
 Karoubi M.: Algebres graduees mixtes
 Kastler D.: Constraints of the standard model a la Connes-Lott
 Kerner R.: \mathbb{Z} -3 graded differential calculus and new gauge theories
 Klimcik C.: NG and supersymmetry
 Madore J.: Linear connections in NG
 Michor P.: Derivation based constructions on central bimodules
 Rieffel M.: Deformation quantization
 Roberts J.: Physical and mathematical aspects of spacetime
 Todorov I.: Non-commutative configuration space in WZNW model
 Connes A.: Geometry from the spectral point of view, II

AFTERNOON LECTURES:

- Bona Pavel: On Lie-Poisson structure on quantum states
 Borowiec Andrzej: Constructive approach to non-commutative differential calculi
 Brodzki Jacek: Supertraces and entire cyclic cohomology
 Brzezinski Tomasz: Geometric aspects of the quantum group gauge theory
 Cap Andreas: On twisted tensor products of algebras
 Ferretti Gabriele: Schwinger terms and cohomology of pseudodifferential operators
 Friedlander Leonid: L^2 - analytic torsion and L^2 - Reidemeister torsion
 Gracia-Bondia J.M.: Connes' interpretation of the standard model and massive neutrinos
 Iochum Bruno: Yang-Mills-Higgs versus Connes-Lott
 Kalau Wolfgang: Supersymmetric Connes-Lott models
 Kaviani Kamran: Chiral perturbation theory in the framework of NG
 Kopf Tomas: The evolution of spacetime encode into a scalar field algebra
 Lee Chang-Yeong: BRST and anti-BRST symmetry in noncommutative geometric gauge theory: matrix derivative approach
 Martin C. P.: Quantum corrections and the stability of the ngc constraints on the parameters of the standard model
 Presnajder Peter: Finite gauge model in non-commutative geometry
 Schucker Thomas: Yang-Mills-Higgs versus Connes-Lott
 Sitarz Andrzej: Problems with metric and linear connections in NG

POSTERS:

- Drabant Bernhard: Quasitriangular structures in braided tensor categories
 Le Roy Bertrand: Hypermatrices: a \mathbb{Z} -3 graded matrix algebra

Lizzi Fedele: Noncommutative Lattices as Finite Approximation of Topological Spaces

Post Gerhard: Differential calculus on Universal Enveloping Algebras

Moreover there was scientific activity in ESI in the month of May, and the following preprints were contributed: [210], [228], [235], [269], [285], [290], [296], [299] (the authors of the last preprint were guests from the program on field theory).

Field theory and differential geometry

Organized by Guisepe Marmo and P. Michor, it took place from May 15 till July 31, 1995. The program developed along the following lines:

Differential geometry and its applications. Asorey, Ibort, Grabowski, Marmo, Michor, Perelomov, Simoni, Tulczyjew, Vilasi.

Spectral Geometry and Torsion. Burghlea, Friedlander. Their theory was explained in an interesting series of lectures.

Infinite dimensional Lie algebras and Lie groups. Borodin, Grabowski, Kirillov, Michor, Mickelsson, Rozhkovskaya. Here a very interesting series of lectures by A. Kirillov and infinite dimensional Lie algebras and their representations is to be mentioned. Borodin and Rozhkovskaya are young graduate student of A. A. Kirillov who were still in Moskau at the time of the program.

Gauge theories and current algebras. Langmann, Mickelsson, Rajeev, Stern, Vitale

Finite approximations to quantum physics. Balachandrian, Bimonte, Landi, Lizzi, Sparano, Teotonio-Sobrinho

The following preprints were contributed: [200], [218], [224], [229], [231], [236], [239], [240], [241], [242], [243], [245], [246], [247], [248], [254], [255], [256], [261], [277], [279], [282], [289], [293], [299].

Geometry of nonlinear partial differential equations

In this small program, organized by Vinogradov, he and Krasil'shchik spent one month each at ESI. The following preprints were produced: [202], [257], [260],

Gibbs random fields and phase transitions

Organized by R. Dobrushin and R. Kotecký.

The semester was overshadowed by the sad news of passing away of Roland L. Dobrushin (12th November 1995 in Moscow) who was the main organizer. Even though his deteriorating health did not allow him to come, many discussions were influenced by his recent proposals and his thinking.

First steps toward organizing a conference devoted to the memory of Roland L. Dobrushin next September in Vienna were made during the semester.

The following colleagues participated in the program of the semester in Vienna: Marek Biskup (1 week), Anton Bovier (2), Lincoln Chayes (8), Filippo Cesi (2), Efim Dinanburg (6), Roberto Fernandez (2), Roman Kotecký (10), Christian Maes (4), Vadim Malyshev (2), Fabio Martinelli (3), Igor Melicherčík (1), Boris Nakhapetjan (8), Enzo Olivieri (3), Senya Shlosman (1), Daniel Ueltschi (2), Miloš Zahradník (8).

We started with a workshop in Churáňov (Czech Republic) attended by: M. Biskup, C. Borgs, A. Bovier, L. Chayes, J.-D. Deuschel, E. Dinanburg, R. Fernández, F. Hollander, P. Holický, O. Hryniv, D. Ioffe, M. Janžura, P. Kotalík, R. Kotecký, P. Marchetti, A. Martin-Löf, J. Miękisz, S. Miracle-Solé, B. Nakhapetian, C. Pfister, J. Ruiz, F. Slanina, D. Ueltschi, A. van Enter, M. Winnink, M. Zahradník.

In addition to (and as an extension of) numerous seminars, several topics were discussed in small groups. Some discussions already lead to finishing a paper (three ESI preprints were issued during the semester); a number of papers and preprints is under preparation.

Among the topics discussed were:

Dobrushin's program for defining relative energies for weakly non-Gibbsian measures

C. Maes, L. Chayes, R. Kotecký, E. Olivieri, M. Zahradník

A proposal made by R. Dobrushin at a workshop in Renkum (in September) has been discussed. Certain pathologies in transformations of Gibbs measures can be for some models treated analogously to the so called Griffiths' singularities in disordered systems.

Kac Model

A. Bovier, M. Zahradník

Low temperature phase of the d -dimensional Kac Model was discussed. The aim is to prove that the critical temperature T_c is greater or equal to $1 - \gamma^x$ for some $x > 0$ where γ is the inverse of the range of the interaction. The validity of the Peierls argument was investigated for these models.

Ising model with alternating field

E. Olivieri, L. Chayes, M. Zahradník

The problem of its low temperature phase diagram was almost solved. In general we are dealing with the structure of low temperature phases of two dimensional models whose contours do not satisfy the ordinary Peierls condition but a weaker property: the energy of such contours is the sum of the "corner energy" which has a high density and the "segment energy" having a small density. The possibility of extending the Pirogov-Sinai theory to these cases was established.

The spin flip dynamics of disordered systems

F. Cesi, C. Maes, F. Martinelli, M. Zahradník

We started working on the glassy dynamics for randomly diluted magnets. Both upper and lower bounds for the relaxation of the disordered system to equilibrium were derived.

Diluted models with continuum spins

L. Chayes, R. Kotecký, S. Shlosman

We discussed the existence of "entropic" intermediate phases for lattice models with continuous spin and annealed dilution.

Intermediate phase for a continuum model

L. Chayes, R. Kotecký

A continuum four component model of Widom-Rowlinson type with an Ashkin-Teller symmetry was discussed. This model has two phase transitions with four distinct phases at high fugacity and two distinct phases in an intermediate fugacity regime.

A Potts model with transition between two disordered states

M. Biskup, L. Chayes, R. Kotecký

We investigated a possibility to use reflection possibility for a class of random cluster models and an application to a particular class of Potts models.

Pirogov-Sinai theory for quantum models

R. Fernández, R. Kotecký, D. Ueltschi, E. Dinanburg

Different aspects of this problem were discussed including fermi and bose systems as well as corresponding degenerated models.

Dynamics of non Hopfield neural networks

V. Malyshev

General methods which were developed earlier for telecommunication networks were applied to neural networks introduced by M.Cottrell. Strong properties of the dynamics were proved: convergence to the patterns starting from noisy patterns.

Some other topics discussed:

Lifshitz law for the life-time of a droplet in the low temperature Ising model *L. Chayes, F. Martinelli*

Asymptotical behaviour for 1D symmetric exclusion with moving boundaries *O. Hryniv, L. Chayes*

Invariant measures for 1D asymmetric exclusion process *O. Hryniv, V. Malyshev*

Mixing properties and limit theorems for random fields *O. Hryniv, B. Nahapetian*

The question of the completeness of the phase picture constructed by the P.S. theory *M. Zahradník, I. Melicherčík*

Generalized Gibbs distributions *V. Malyshev, B. Nahapetian*

Dynamics for Hopfield networks with Small Number of Patterns *V. Malyshev, L. Pastur, M. Scherbina*

Roman Kotecký

Contributions to the ESI preprint series: [281], [283],

Reaction-diffusion Equations in Biological Context

This program was run from September 1 to November 15, 1995, and used nine man-months. The local organizers were Karl Sigmund, Reinhard Bürger and Josef Hofbauer from the Institute of Mathematics, the visitors Pavol Brunovsky, Konstantin Mischaikov, Thomas Nagylaki and Vivian Hutson.

Reaction-diffusion equation have been studied (in the context of population genetics) since 1937, but only recently has one studied the effect of different diffusion rates (biological motivation: diffusion rates are evolutionary variables, and subject to selection). The central question discussed during the workshop was: if different diffusion rates carry no selective advantage per se (i.e. all have the same fitness) will there still be selection for some particular rate? We assume, for instance, a one-dimensional distribution of the population along an axis, and a carrying capacity which is not constant and can even be negative in some spots. Under the assumption of asexual replication, and only two different diffusion rates, it turned out that there was always selection for the smaller one. This could be proved analytically, using the theory of monotone flows, even in the case of adding small mutation rates to the equation. For more than two rates, the result is probably true, but its proof has still a gap (even for the no mutation case). Considerable effort has been made to develop more sophisticated models including sexual replication, recombination, and drift. Among the problems still at an exploratory stage, we mention: what happens if there is a cost attached to diffusion rates that are too small, or too large? Is there a selective advantage for higher diffusion rates if the carrying capacity oscillates periodically?

Another center of gravity for the discussions was the theory of travelling waves for frequency-dependent selection. This can be studied using evolutionary games (more precisely, reaction-diffusion variants of the replicator equation). The bistable situation was of particular interest. It was shown that under certain circumstances bistable waves exist (with a change of sign for the velocity of the density of one of the two competing types). This was applied to the study of the iterated Prisoner's Dilemma, with special emphasis on the invasability of a population of defectors by strict retaliators.

It is expected that during the next few months, several papers will result from our collaboration.

In particular, Nagylaki is finishing a paper with the title 'Multinomial-sampling models for random genetic drift', and a further work by Brunovsky-Hofbauer and Nagylaki with the title: 'Convergence of Multilocus systems under weak epistasis or weak selection' is in preparation.

Karl Sigmund

Condensed Matter Physics

In this program which is still running at present almost 70 scientists visited the Erwin Schroedinger institute. In the year 1995 3 workshops were held. The first one in August

was about "Transport Phenomena and Chaos". The second one in September was devoted to the "Heisenberg and Hubbard Model" and the third one in October to "Singular Spectra". The first two workshops lasted two weeks each and the third one just one week. Up to now about 15 preprints were written by the participants of this special semester on "Condensed Matter Physics - Dynamics, Geometry and Spectral Theory." Since this activity is still going on until the end of February 1996 the final account will be given in the report this year.

Contributions to the ESI preprint series: [259], [264], [270], [271], [272], [275], [276], [280], [291], [294], [295], [297], [302]

Semi-Classical Limits and Kinetic Equations

This was a small workshop, organized by C. Schmeisser as a preparation for a program for 1997, in the period November 27 - November 28, 1995. The following talks were presented:

- W. Thirring (Wien): Derivation of the Thomas-Fermi theory from the Schrödinger Equation
- T. Paul (Paris): Semiclassical methods using coherent states
- H. Narnhofer (Wien): Vlasov hydrodynamics for a quantum mechanical model
- A. Arnold (Berlin): The relaxation-time von Neumann-Poisson equation: existence, uniqueness, large time behaviour
- B. Perthame (Paris): Time Decay in Kinetic Equations, Relations with Schrödinger and Fluid Cases
- M. Pulvirenti (Roma): On the Enskog equation: Derivability from particle systems
- I. Gasser (Berlin): The classical limit of Hartree-Fock systems
- N. Mauser (Berlin): Wigner transforms and homogenization limits
- R. Illner (Victoria): Global weak solutions of the Boltzmann equation in a slab with stochastic boundary conditions
- F. Poupard (Nice): Semiclassical limits and effective mass theorems
- P. Gérard (Paris): Wigner measures and Concentration Effects
- A. Unterreiter (Berlin): The stationary quantum drift-diffusion model
- C. Ringhofer (Tempe): Approximate equilibria of quantum mechanical systems and applications to quantum kinetic and quantum hydrodynamic models
- P. Degond (Toulouse): Macroscopic models for semi conductors
- A. Zwirchmayr (Wien): Convergence of moment expansions for the semiconductor Boltzmann equation

Guests of Walter Thirring

Contributions to the ESI preprint series: [187], [199], [209], [220], [221], [222], [223], [226], [265], [267], [286], [287], [288], [292],

Guests of Klaus Schmidt

Contributions to the ESI preprint series: [268], [273], [300], [301],

Guest of Wolfgang Kummer

Existing treatments of $2d$ -dimensional models largely ignore a careful study of global questions. During the first visit of Dr. Katanaev we showed that nonvanishing torsion may be eliminated in $2d$ -dimensional models of gravity. The equivalent generalized dilation theory, nevertheless, acquires a 'geometric' justification by this procedure. The global structure of that theory is shown to be obtained by cutting Penrose diagrams of the theory with torsion. The resulting structures turn out to be much closer to the genuine Schwarzschild black hole of General Relativity ([278]).

During his second stay we prepared a paper (preliminary draft: 'On the completeness of the black hole singularity in $2d$ dilaton theories, prep. TUW95-24). It critically analyses the properties of Witten's black hole in relation to the genuine one. All known soluble models in the presence of matter are found to differ crucially from the genuine black hole, a fact to be suspected already from qualitative differences, e.g. in the Hawking temperature.

Contributions to the ESI preprint series: [252], [278].

CONTINUATIONS OF ACTIVITIES FROM 1994

Continuation Operator algebras

Contributions to the ESI preprint series: [204], [226], [267], [274].

Continuation Schrödinger Operators

Contributions to the ESI preprint series: [190], [193], [262], [208], [211], [212], [237], [238], [249], [250], [258], [262], [263].

Continuation Mathematical Relativity

Contributions to the ESI preprint series: [190], [266], [267], [206], [207], [251], [266],

Continuation Quaternionic manifolds

Contributions to the ESI preprint series: [188], [191], [196], [197], [198], [205], [213], [219], [230], [247],

Continuation Spinor - and twistor theory

Contributions to the ESI preprint series: [192], [194], [201], [219], [227], [284],

List of Preprints

We try to keep track of the bibliographical data of the published versions of the preprints – this is incomplete and we are constantly updating it. Therefore we enclose the list of all preprints, not only those of 1994.

1993

1. V. A. Bunegina, A. L. Onishchik, *Two Families of Flag Supermanifolds*, Diff. Geom. Appl. **4** (1994), 329–360.
2. G. Landi, G. Marmo, G. Vilasi, *An algebraic Approach to Integrability* (1993), 16 pp..
3. Peter C. Aichelburg, Piotr Bizon, *Magnetically Charged Black Holes and Their Stability*, Phys. Rev. D (3) **48** (1993), 607–615.
4. Peter W. Michor, *Radon transform and curvature*, 75 Years of Radon Transform (S. Gindikin, P. Michor, eds.), International Press, Boston, 1994, pp. 249–251.
5. Janusz Grabowski, *Isomorphisms of the Jacobi and Poisson Brackets* (1993), 5 pp..
6. A. Cap, P. W. Michor, H. Schichl, *A Quantum Group like Structure on non Commutative 2-Tori*, Lett. Math. Phys. **28** (1993), 251–255.
7. D. V. Alekseevsky, Peter W. Michor, *Differential Geometry of \mathfrak{g} -Manifolds*, Diff. Geom. Appl. **5** (1995), 371–403.
8. H. Grosse, W. Maderner, C. Reitberger, *Cyclic Cohomology for Massive 1+1d-Fermions and Virasoro Algebras*, J. of Math. Physics **34** (1993), 4469–4477.
9. A. M. Vinogradov, *From Symmetries of Partial Differential Equations towards the Secondary ('Quantized') Calculus*, J. Geom. Physics **14** (1994), 146–194, Not available via anonymous FTP.
10. A. L. Onishchik, *On the Rigidity of Supergrassmannians*, Annals of Global Analysis and Geometry (1993), 361–372.
11. O. Gil-Medrano, P. W. Michor, *Pseudoriemannian Metrics on Spaces of Almost Hermitian Structures*, appeared as “Geodesics on Spaces of Almost Hermitian Structures”, Israel J. Math. **88** (1994), 319–332.

12. A. Borovick, S. Kulinich, V. Popkov, Yu. Strzhemechny, *A new class of completely solvable bi-Plane 2d Vertex Models* (1993), 36 pp., Not available via anonymous FTP.
13. A. Akhiezer, A. Borovick, V. Popkov, *Exactly solvable system of coupled nonlinear Schrödinger equations*, Phys. Lett. A **182** (1993), 44–48, Not available via anonymous FTP.
14. Karl-Henning Rehren, *On the Range of the Index of Subfactors*, J. Funct. An. **134** (1995), 183–193.
15. Pierre Cartier, *Construction Combinatoire des Invariants de Vassiliev – Kontsevich des Nœds*, Comptes Rendus Acad. Sci., Paris, 10 pp., Not available via anonymous FTP (to appear).
16. Janusz Grabowski, *Poisson Lie groups and their relation to quantum groups* (1993), 9 pp..
17. J. Grabowski, G. Marmo, A. M. Perelomov, *Poisson structures: towards a classification*, Modern Phys. Letters A **8** (1993), 1719–1733.
18. P. Bizon, *Saddle points of stringy actions*, Acta Phys. Polon. B **24** (1993), 1209–1220.
19. Yassen S. Stanev, *Classification of the local extensions of the chiral observable algebra in $SU(3)$ WZNW models* (1993), 18 pp..
20. Ludmil K. Hadjiivanov, *Quantum deformation of Bose parastatistics* (1993), 20 pp..
21. A. Alekseevsky, D. Alekseevsky, *Asystatic G -manifolds*, Proceedings of the conference on Differential Geometry and Topology, Alghero (F. Tricerri, R. Caddeo, ed.), pp. 21 pp. (to appear).
22. W. Maderner, H. Grosse, C. Reitberger, *On spin chains, charges, and anomalies*, Journ. Phys. A: Math. **27** (1994), 3879 ff..
23. H. Grosse, P. Presnajder, *The Construction of Non-Commutative Manifolds Using Coherent States*, Letters of Math. Physics **28** (1993), 239–250.
24. D. Bernard, M. Gaudin, F. D. M. Haldane, V. Pasquier, *Yang-Baxter equations in long range interacting systems* (1993), 23 pp..
25. H. Grosse, E. Raschhofer, *Bethe-Ansatz Solution of a Modified $SU(3)$ -XXZ-Model*, On three levels (A. Verbeure, M. Fannes, C. Maes, eds.), Plenum Publishing Corporation, New York, 1993.
26. J. Grabowski, *A Poisson-Lie group Structure on the Diffeomorphism Group of a Circle*, Letters of Math. Physics **32** (1994), 307–313.
27. R. Hempel, J. Laitenberger, *Schrödinger operators with strong local magnetic perturbations: existence of eigenvalues in gaps of the essential spectrum*, Proceedings of the conference: Mathematical results in quantum mechanics, Blossin 1993 (M. Demuth, P. Exner, H. Neidhardt, V. Zagrebnov, eds.), Series: Operator theory: advances and applications, Vol. 70, Birkhäuser, Basel, Boston, Berlin, 1994, pp. 13–18.
28. J. Grabowski, G. Landi, G. Marmo, G. Vilasi, *Generalized Reduction Procedure: Symplectic and Poisson Formalism*, Fortschritte der Physik/Progress in Physics **42**, **5** (1994), 393–427.
29. Nikolai S. Nadirashvili, *Raleigh’s conjecture on the principal frequency of the clamped plate* (1993), 11 pp..
30. D. V. Alekseevsky, M. M. Graev, *Twistors and Cartan Connections* (1993), 14 pp..
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