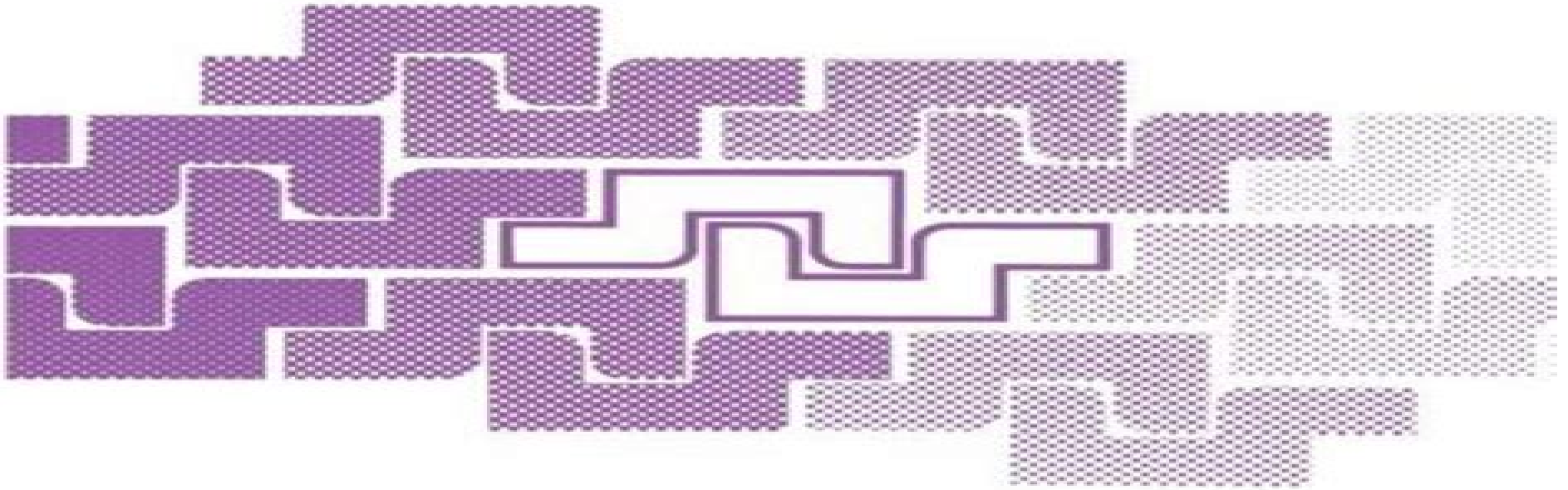

Partially Integrable Evolution Equations in Physics

Edited by

Robert Conte and Nino Boccara

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Partially Integrable Evolution Equations In Physics Nato Science Series C

Alan R. Bishop,V.L. Pokrovsky,V. Tognetti

Partially Integrable Evolution Equations In Physics Nato Science Series C:

Partially Integrable Evolution Equations in Physics R. Conte,N. Boccara,2012-12-06 In the many physical phenomena ruled by partial differential equations two extreme fields are currently overcrowded due to recent considerable developments 1 the field of completely integrable equations whose recent advances are the inverse spectral transform the recursion operator underlying Hamiltonian structures Lax pairs etc 2 the field of dynamical systems often built as models of observed physical phenomena turbulence intermittency Poincare sections transition to chaos etc In between there is a very large region where systems are neither integrable nor nonintegrable but partially integrable and people working in the latter domain often know methods from either 1 or 2 Due to the growing interest in partially integrable systems we decided to organize a meeting for physicists active or about to undertake research in this field and we thought that an appropriate form would be a school Indeed some of the above mentioned methods are often adaptable outside their original domain and therefore worth to be taught in an interdisciplinary school One of the main concerns was to keep a correct balance between physics and mathematics and this is reflected in the list of courses *Continuous Symmetries and Integrability of Discrete Equations* Decio Levi,Pavel Winternitz,Ravil I. Yamilov,2023-01-23 This book on integrable systems and symmetries presents new results on applications of symmetries and integrability techniques to the case of equations defined on the lattice This relatively new field has many applications for example in describing the evolution of crystals and molecular systems defined on lattices and in finding numerical approximations for differential equations preserving their symmetries The book contains three chapters and five appendices The first chapter is an introduction to the general ideas about symmetries lattices differential difference and partial difference equations and Lie point symmetries defined on them Chapter 2 deals with integrable and linearizable systems in two dimensions The authors start from the prototype of integrable and linearizable partial differential equations the Korteweg de Vries and the Burgers equations Then they consider the best known integrable differential difference and partial difference equations Chapter 3 considers generalized symmetries and conserved densities as integrability criteria The appendices provide details which may help the readers understanding of the subjects presented in Chapters 2 and 3 This book is written for PhD students and early researchers both in theoretical physics and in applied mathematics who are interested in the study of symmetries and integrability of difference equations **KdV '95** Michiel Hazewinkel,Hans W. Capel,Eduard M. de Jager,2012-12-06 Exactly one hundred years ago in 1895 G de Vries under the supervision of D J Korteweg defended his thesis on what is now known as the Korteweg de Vries Equation They published a joint paper in 1895 in the Philosophical Magazine entitled On the change of form of long waves advancing in a rectangular canal and on a new type of long stationary wave and for the next 60 years or so no other relevant work seemed to have been done In the 1960s however research on this and related equations exploded There are now some 3100 papers in mathematics and physics that contain a mention of the phrase Korteweg de Vries equation in their title or abstract and there are

thousands more in other areas such as biology chemistry electronics geology oceanology meteorology etc And of course the KdV equation is only one of what are now called Liouville completely integrable systems The KdV and its relatives continually turn up in situations when one wishes to incorporate nonlinear and dispersive effects into wave type phenomena This centenary provides a unique occasion to survey as many different aspects of the KdV and related equations The KdV equation has depth subtlety and a breadth of applications that make it a rarity deserving special attention and exposition *The Cumulative Book Index* ,1991 A world list of books in the English language Nonlinear And Chaotic Phenomena In Plasmas, Solids And Fluids - Proceedings Of The Conference W Rozmus,Jack A Tuszynski,1991-07-22 Microscopic Aspects of Nonlinearity in Condensed Matter Alan R. Bishop,V.L. Pokrovsky,V. Tognetti,2012-12-06 Proceedings of a NATO ARW held in Florence Italy June 7 13 1990 *Nematics* Jean-Michel Coron,Jean-Michel Ghidaglia,Frédéric Hélein,2012-12-06 This volume Ie NEMATICS Mathematical and Physical aspects constitutes the proceedings of a workshop which was held at l Universite de Paris Sud Orsay in May 1990 This meeting was an Advanced Research Workshop sponsored by NATO We gratefully acknowledge the help and support of the NATO Science Committee Additional support has been provided by the Ministere des affaires etrangeres Paris and by the Direction des Recherches et Etudes Techniques Paris Also logistic support has been provided by the Association des Numericiens d Orsay These proceedings are published in the framework of the Contrat DRET W 90 316 AOOO v Contents FOREWORD v INTRODUCTION 1 M CORON 1 M GHIDAGLIA F HELEIN xi AN ENERGY DECREASING ALGORITHM FOR HARMONIC MAPS F ALOUGES 1 A COHOMOLOGICAL CRITERION FOR DENSITY OF SMOOTH MAPS IN SOBOLEV SPACES BETWEEN TWO MANIFOLDS F BETHUEL 1 M CORON F DEMENGEL F HELEIN 15 ON THE MATHEMATICAL MODELING OF TEXTURES IN POLYMERIC LIQUID CRYSTALS M C CAmERER 25 A RESULT ON THE GLOBAL EXISTENCE FOR HEAT FLOWS OF HARMONIC MAPS FROM D2 INTO S2 K C CHANG W Y DING 37 BLOW UP ANALYSIS FOR HEAT FLOW OF HARMONIC MAPS Y CHEN 49 T AYLOR COUETTE INSTABILITY IN NEMATIC LIQUID CRYSTALS P E ClADIS 65 ON A CLASS OF SOLUTIONS IN THE THEORY OF NEMATIC PHASES B D COLEMAN 1 T JENKINS 93 RHEOLOGY OF THERMOTROPIC NEMATIC LIQUID CRYSTALLINE POLYMERS M M DENN 1 A **American Book Publishing Record** ,1990 **Mathematical Reviews** ,2007 *The British National Bibliography* Arthur James Wells,1993 **Physics Briefs** ,1992 **Physics Letters** ,1995 General physics atomic physics molecular physics and solid state physics *Encyclopedia of Mathematical Physics* Jean-Pierre Françoise,Gregory L. Naber,Sheung Tsun Tsou,2006 The Encyclopedia of Mathematical Physics provides a complete resource for researchers students and lecturers with an interest in mathematical physics It enables readers to access basic information on topics peripheral to their own areas to provide a repository of the core information in the area that can be used to refresh the researcher s own memory banks and aid teachers in directing students to entries relevant to their course work The Encyclopedia does contain information that has been distilled organised and presented as a complete reference tool to the user and a landmark to the

body of knowledge that has accumulated in this domain It also is a stimulus for new researchers working in mathematical physics or in areas using the methods originating from work in mathematical physics by providing them with focused high quality background information Editorial Board Jean Pierre Fran oise Universit Pierre et Marie Curie Paris France Gregory L Naber Drexel University Philadelphia PA USA Tsou Sheung Tsun University of Oxford UK Also available online via ScienceDirect 2006 featuring extensive browsing searching and internal cross referencing between articles in the work plus dynamic linking to journal articles and abstract databases making navigation flexible and easy *Physical Review* ,1997-08 Publishes papers that report results of research in statistical physics plasmas fluids and related interdisciplinary topics There are sections on 1 methods of statistical physics 2 classical fluids 3 liquid crystals 4 diffusion limited aggregation and dendritic growth 5 biological physics 6 plasma physics 7 physics of beams 8 classical physics including nonlinear media and 9 computational physics **Whitaker's Books in Print** ,1998 Subject Guide to Books in Print ,1996 Directory of Published Proceedings ,1997 Boekblad ,1990 *Nonlinear Coherent Structures* Mariette Barthes,Jerome Leon,1990-02-21 This book is devoted to the applications of the mathematical theory of solitons to physics statistical mechanics and molecular biology It contains contributions on the signature and spectrum of solitons nonlinear excitations in prebiological systems experimental and theoretical studies on chains of hydrogen bonded molecules nonlinear phenomena in solid state physics including charge density waves nonlinear wave propagation defects gap solitons and Josephson junctions The content is interdisciplinary in nature and displays the new trends in nonlinear physics **INIS Atomindeks** ,1979

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