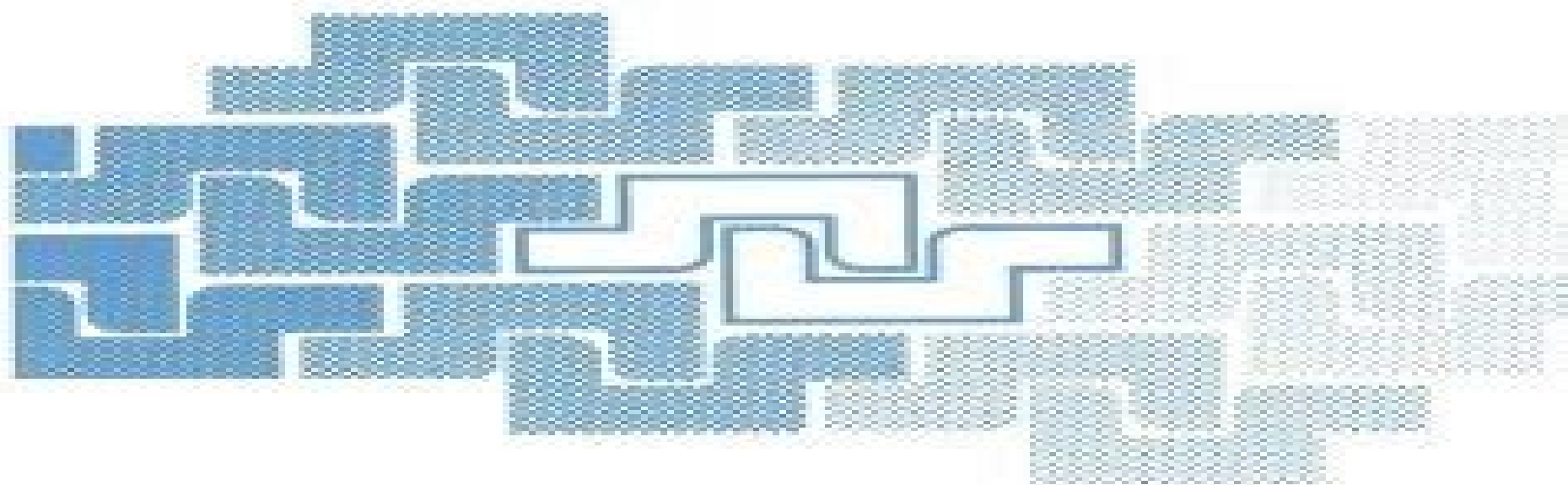




# Singular Limits of Dispersive Waves

Edited by  
N. M. Ercolani  
I. R. Gabitov  
C. D. Levermore and  
D. Serre

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# Singular Limits Of Dispersive Waves

**N.M. Ercolani, I.R. Gabitov, C.D.  
Levermore, D. Serre**



## **Singular Limits Of Dispersive Waves:**

**Singular Limits of Dispersive Waves** N.M. Ercolani,I.R. Gabitov,C.D. Levermore,D. Serre,2012-12-06 Proceedings of a NATO ARW and of a Chaos Order and Patterns Panel sponsored workshop held in Lyons France July 8 12 1991 **Wigner Measure and Semiclassical Limits of Nonlinear Schrödinger Equations** Ping Zhang, This book is based on a course entitled Wigner measures and semiclassical limits of nonlinear Schrodinger equations which the author taught at the Courant Institute of Mathematical Sciences at New York University in the spring of 2007 The author s main purpose is to apply the theory of semiclassical pseudodifferential operators to the study of various high frequency limits of equations from quantum mechanics In particular the focus of attention is on Wigner measure and recent progress on how to use it as a tool to study various problems arising from semiclassical limits of Schrodinger type equations At the end of each chapter the reader will find references and remarks about recent progress on related problems The book is self contained and is suitable for an advanced graduate course on the topic BOOK JACKET , **Solitons, Instantons, and Twistors** Maciej Dunajski,2010 A text aimed at third year undergraduates and graduates in mathematics and physics presenting elementary twistor theory as a universal technique for solving differential equations in applied mathematics and theoretical physics *Recent Progress in Computational and Applied PDES* Tony F. Chan,Yunqing Huang,Tao Tang,Jinchao Xu,Lung-an Ying,2012-12-06 The book discusses some key scientific and technological developments in computational and applied partial differential equations It covers many areas of scientific computing including multigrid methods image processing finite element analysis and adaptive computations It also covers software technology algorithms and applications Most papers are of research level and are contributed by some well known mathematicians and computer scientists The book will be useful to engineers computational scientists and graduate students *Nonlinear Evolution Equations And Dynamical Systems Needs '94* Vladimir G Makhankov,A R Bishop,Darryl D Holm,1995-04-26 **Nonlinear Dispersive Equations** Christian Klein,Jean-Claude Saut,2022-02-23 Nonlinear Dispersive Equations are partial differential equations that naturally arise in physical settings where dispersion dominates dissipation notably hydrodynamics nonlinear optics plasma physics and Bose Einstein condensates The topic has traditionally been approached in different ways from the perspective of modeling of physical phenomena to that of the theory of partial differential equations or as part of the theory of integrable systems This monograph offers a thorough introduction to the topic uniting the modeling PDE and integrable systems approaches for the first time in book form The presentation focuses on three universal families of physically relevant equations endowed with a completely integrable member the Benjamin-Ono Davey-Stewartson and Kadomtsev-Petviashvili equations These asymptotic models are rigorously derived and qualitative properties such as soliton resolution are studied in detail in both integrable and non integrable models Numerical simulations are presented throughout to illustrate interesting phenomena By presenting and comparing results from different fields the book aims to stimulate scientific interactions and attract new students and

researchers to the topic To facilitate this the chapters can be read largely independently of each other and the prerequisites have been limited to introductory courses in PDE theory

**Soliton Equations and their Algebro-Geometric Solutions: Volume 1, (1+1)-Dimensional Continuous Models** Fritz Gesztesy, Helge Holden, 2003-06-05 The focus of this book is on algebro geometric solutions of completely integrable nonlinear partial differential equations in 1+1 dimensions also known as soliton equations Explicitly treated integrable models include the KdV AKNS sine Gordon and Camassa Holm hierarchies as well as the classical massive Thirring system An extensive treatment of the class of algebro geometric solutions in the stationary as well as time dependent contexts is provided The formalism presented includes trace formulas Dubrovin type initial value problems Baker Akhiezer functions and theta function representations of all relevant quantities involved The book uses techniques from the theory of differential equations spectral analysis and elements of algebraic geometry most notably the theory of compact Riemann surfaces The presentation is rigorous detailed and self contained with ample background material provided in various appendices Detailed notes for each chapter together with an exhaustive bibliography enhance the presentation offered in the main text

**The Nonlinear Schrödinger Equation** Catherine Sulem, Pierre-Louis Sulem, 2007-06-30 Filling the gap between the mathematical literature and applications to domains the authors have chosen to address the problem of wave collapse by several methods ranging from rigorous mathematical analysis to formal asymptotic expansions and numerical simulations

**Turbulence** P. Tabeling, O. Cardoso, 2012-12-06 The present volume comprises the contributions of some of the participants of the NATO Advanced Studies Institute Turbulence Weak and Strong held in Cargèse in August 1994 More than 70 scientists from seniors to young students have joined together to discuss and review new and not so new ideas and developments in the study of turbulence One of the objectives of the School was to incorporate in the same meeting two aspects of turbulence which are obviously linked and which are often treated separately fully developed turbulence in two and three dimensions and weak turbulence essentially one and two dimensional systems The idea of preparing a dictionary rather than ordinary proceedings started from the feeling that the terminology of turbulence includes many long technical poorly evocative words which are usually not understood by people exterior to the field and which might be worth explaining Students who start working in the field of turbulence face a sort of curious situation on one side they are aware that turbulence is related to the disordered churning flows of torrents the powerful movements of water in the oceans the violent jet streams in the troposphere the solar eruptions and they are certainly excited to pierce the mystery of this fascinating omnipresent phenomenon

*Linking the Gaseous and Condensed Phases of Matter* Loucas G. Christophorou, Eugen Illenberger, Werner F. Schmidt, 2012-12-06 The Advanced Study Institute ASI on Linking the Gaseous and Condensed Phases of Matter The Behavior of Slow Electrons was held at Patras Greece September 5-18 1993 The organizers of the Patras ASI felt that the study of the electronic properties of matter in various states of aggregation has advanced to a point where further progress required the interfacing of the phases of matter in order to find

out and to understand how the microscopic and macroscopic properties of materials and processes change as we go from low pressure gas to the condensed phase This approach is of foremost significance both from the point of view of basic research and of applications Linking the electronic properties of the gaseous and condensed phases of matter is a fascinating new frontier of science embracing scientists not only from physics and chemistry but also from the life sciences and engineering The Patras ASI brought together some of the world's foremost experts who work in the field of electronic properties of molecular gases clusters liquids and solids The thirty five lectures given at the meeting as well as the twenty nine poster papers presented and the formal and informal discussions that took place focused largely on the behavior of slow electrons in matter

**Solid State Lasers** Massimo Inguscio, Richard Wallenstein, 2012-12-06 This volume contains the lectures and seminars presented at the NATO Advanced Study Institute on Solid State Lasers New Developments and Applications the fifteenth course of the Europhysics School of Quantum Electronics held under the supervision of the Quantum Electronics Division of the European Physical Society The Institute was held at Elba International Physics Center Marciana Marina Elba Island Tuscany Italy August 31 September 11 1992 The Europhysics School of Quantum Electronics was started in 1970 with the aim of providing instruction for young researchers and advanced students already engaged in the area of quantum electronics or wishing to switch to this area from a different background Presently the school is under the direction of Professors F T Arecchi and M Inguscio University of Florence and Prof H Walther University of Munich and has its headquarters at the National Institute of Optics INO Florence Italy Each time the directors choose a subject of particular interest alternating fundamental topics with technological ones and ask colleagues specifically competent in a given area to take the scientific responsibility for that course

**Notions of Positivity and the Geometry of Polynomials** Petter Brändén, Mikael Passare, Mihai Putinar, 2011-09-01 The book consists of solicited articles from a select group of mathematicians and physicists working at the interface between positivity and the geometry combinatorics or analysis of polynomials of one or several variables It is dedicated to the memory of Julius Borcea 1968 2009 a distinguished mathematician Professor at the University of Stockholm With his extremely original contributions and broad vision his impact on the topics of the planned volume cannot be underestimated All contributors knew or have exchanged ideas with Dr Borcea and their articles reflect at least partially his heritage

**Algebraic Aspects of Integrable Systems** A.S. Fokas, I.M. Gelfand, 2012-12-06 A collection of articles in memory of Irene Dorfman and her research in mathematical physics Among the topics covered are the Hamiltonian and bi-Hamiltonian nature of continuous and discrete integrable equations the  $t$  function construction the  $r$  matrix formulation of integrable systems pseudo differential operators and modular forms master symmetries and the Bocher theorem asymptotic integrability the integrability of the equations of associativity invariance under Laplace Darboux transformations trace formulae of the Dirac and Schrodinger periodic operators and certain canonical forms

*Statistical Mechanics, Protein Structure, and Protein Substrate Interactions* Sebastian Doniach, 2013-11-22 A

number of factors have come together in the last couple of decades to define the emerging interdisciplinary field of structural molecular biology. First there has been the considerable growth in our ability to obtain atomic resolution structural data for biological molecules in general and proteins in particular. This is a result of advances in technique both in x ray crystallography driven by the development of electronic detectors and of synchrotron radiation x ray sources and by the development of NMR techniques which allow for inference of a three dimensional structure of a protein in solution. Second there has been the enormous development of techniques in DNA engineering which makes it possible to isolate and clone specific molecules of interest in sufficient quantities to enable structural measurements. In addition the ability to mutate a given amino acid sequence at will has led to a new branch of biochemistry in which quantitative measurements can be made assessing the influence of a given amino acid on the function of a biological molecule. A third factor resulting from the exponential increase in computing power available to researchers has been the emergence of a growing body of people who can take the structural data and use it to build atomic scale models of biomolecules in order to try and simulate their motions in an aqueous environment thus helping to provide answers to one of the most basic questions of molecular biology the relation of structure to function.

From Newton to Chaos Archie E. Roy, B.A. Steves, 2013-06-29 The reader will find in this volume the Proceedings of the NATO Advanced Study Institute held in Cortina d Ampezzo Italy between July 25 and August 6 1993 under the title From Newton to Chaos Modern Techniques for Understanding and Coping With Chaos in N Body Dynamical Systems. This institute was the latest in a series of meetings held every three years from 1972 to 1990 in dynamical astronomy theoretical mechanics and celestial mechanics. The proceedings from these institutes have been well received in the international community of research workers in these disciplines. The present institute was well attended with 15 series of lectures being given by invited speakers in addition some 40 presentations were made by the other participants. The majority of these contributions are included in these proceedings. The all pervading influence of chaos in dynamical systems of even a few variables has now been universally recognised by researchers a recognition forced on us by our ability using powerful computer hardware and software to tackle dynamical problems that until twenty five years ago were intractable. Doubtless it was felt by many that these new techniques provided a breakthrough in celestial mechanics and its related disciplines. And so they were.

Soft Order in Physical Systems R. Bruinsma, Y. Rabin, 2012-12-06 A humorous view of the physics of soft matter which nevertheless has a ring of truth to it is that it is an ill defined subject which deals with ill condensed matter by ill defined methods. Although since the Nobel prize was awarded to Pierre Gilles de Gennes this subject can be no longer shrugged away as sludge physics by the physics community it is still not viewed universally as mainstream physics. While at first glance this may be considered as another example of inertia a case of the establishment against the newcomer the roots of this prejudice are much deeper and can be traced back to Roger Bacon's conception about the objectivity of science. All of us would agree with the weaker form of this idea which simply says that the final results of our

work should be phrased in an observer independent way and be communicable to anybody who made the effort to learn this language There exists however a stronger form of this idea according to which the above criteria of objectivity and communicability apply also to the process of scientific inquiry The fact that major progress in the physics of soft matter was made in apparent violation of this approach by applying intuition to problems which appeared to defy rigorous analysis may explain why many physicists feel somewhat ill at ease with this subject

**Nonlinear Coherent Structures in Physics and Biology** K.H. Spatschek, F.G. Mertens, 2013-11-11 This volume contains the Proceedings of the NATO Advanced Research Workshop ARW and Emil Warburg Symposium EWS Nonlinear Coherent Structures in Physics and Biology held at the University of Bayreuth from June 1-4 1993 Director of the ARW was K H Spatschek while F G Mertens acted as the co director host and organizer of the EWS The other members of the scientific organizing committee were A R Bishop Los Alamos J C Eilbeck Edinburgh and M Remoissenet Dijon This was the eighth meeting in a series of interdisciplinary workshops founded by our French colleagues who had organized all the previous workshops e g 1989 in Montpellier and 1991 in Dijon We were asked to organize the meeting this time in Germany Of course we wanted to keep the character defined by the previous meetings which were always characterized by an open and friendly atmosphere being not too large in quantity but high in quality This time altogether 103 participants attended the workshop During the past years most of the participants met several times and discussed problems connected with the generation of nonlinear coherent structures in physics and biology

**Geometry, Mechanics, and Dynamics** Paul Newton, Phil Holmes, Alan Weinstein, 2006-05-11 Jerry Marsden one of the world's pre eminent mechanics and applied mathematicians celebrated his 60th birthday in August 2002 The event was marked by a workshop on Geometry Mechanics and Dynamics at the Fields Institute for Research in the Mathematical Sciences of which he was the founding Director Rather than merely produce a conventional proceedings with relatively brief accounts of research and technical advances presented at the meeting we wished to acknowledge Jerry's influence as a teacher a propagator of new ideas and a mentor of young talent Consequently starting in 1999 we sought to collect articles that might be used as entry points by students interested in fields that have been shaped by Jerry's work At the same time we hoped to give experts engrossed in their own technical niches an indication of the wonderful breadth and depth of their subjects as a whole This book is an outcome of the efforts of those who accepted our invitations to contribute It presents both survey and research articles in the several fields that represent the main themes of Jerry's work including elasticity and analysis fluid mechanics dynamical systems theory geometric mechanics geometric control theory and relativity and quantum mechanics The common thread running through this broad tapestry is the use of geometric methods that serve to unify diverse disciplines and bring a wide variety of scientists and mathematicians together speaking a language which enhances dialogue and encourages cross fertilization

**Conservative Systems and Quantum Chaos** Larry Meredith Bates, David Lawrence Rod, 1996 This volume presents new research in classical Hamiltonian and quantum systems from the Workshop on

Conservative Systems and Quantum Chaos held during The Fields Institute Program Year on Dynamical Systems and Bifurcation Theory in October 1992 Waterloo Canada The workshop was organized so that there were presentations that formed a bridge between classical and quantum mechanical systems Four of these papers appear in this collection with the remaining six papers concentrating on classical Hamiltonian dynamics



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