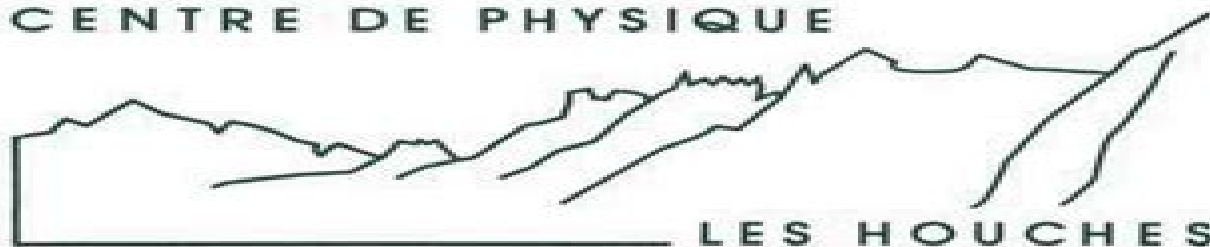


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NONLINEAR EXCITATIONS IN BIOMOLECULES

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Nonlinear Excitations In Biomolecules

D. Beysens, G. Forgacs



Nonlinear Excitations In Biomolecules:

Nonlinear Excitations in Biomolecules Michel Peyrard, 2013-06-29 In the last few years hopes have emerged that simple concepts could perhaps explain the extremely complicated biomolecular processes which are known to a greater and greater accuracy thanks to the extraordinary progress of biology In parallel powerful methods in physics especially nonlinearity and cooperative effects have been developed They apply especially to biological phenomena and can explain coherent excitations with remarkable properties This book provides a pedagogical introduction to the theory of nonlinear excitations and solitons in a biological environment and also to the structure and function of biomolecules as well as energy and charge transport in biophysics *Nonlinear Excitations in Biomolecules* Michel Peyrard, 2014-01-15 Proceedings of the Workshop Nonlinear Physics, Theory and Experiment, II Mark J. Ablowitz, M. Boiti, Barbara Prinari, F. Pempinelli, 2003 Pt I Analytical methods On the IST for discrete nonlinear Schrödinger systems and polarization shift for discrete vector solitons M J Ablowitz B Prinari A D Trubatch Soliton solutions of coupled nonlinear Klein Gordon equations T Alagesan Characteristic initial value problems for integrable hyperbolic reductions of Einstein's equations G A Alekseev Discrete sine Gordon equation M Boiti und weitere Integrable and non integrable equations with peakons A Degasperis D D Holm A N W Hone Solution of a free boundary problem for a nonlinear diffusion convection equation S De Lillo M C Salvatori G Sanchini Iterative construction of solutions for a nonisospectral problem in 2+1 dimensions P G Estevez Discrete breathers close to the anticontinuum limit existence and wave scattering S Flach und weitere Complex Toda chain an integrable universal model for adiabatic N soliton interactions V S Gerdjikov On the reductions and scattering data for the generalized Zakharov Shabat systems G G Grahovski Bilinear representation for the modified nonlinear Schrödinger equations and their quantum potential deformations J H Lee O K Pashaev Noncommutative Burgers equations L Martina O K Pashaev On the quasi classical symbol dressing method B Konopelchenko A Moro New solvable matrix integrals Un case A Yu Orlov Integrable hydrodynamic chains M V Pavlov KP II new results and open problems A K Pogrebkov A workmate for KdV P C Sabatier Space time lattice for operator Schrödinger equation A Spire V V Konotop L Vazquez On isomonodromy deformations for the ZS AKNS flows D Wu pt II Symmetry properties Hamiltonian methods and group theoretical methods New symmetry reductions for a lubrication model M S Bruz n und weitere Quantum solitons for quantum information and quantum computing R K Bullough M Wadati Solving renormalization group equations by recursion relations A Cafarella C Corian M Guzzi A tri Hamiltonian route to spectral curves L Degiovanni G Magnano Construction of real forms of complexified Hamiltonian dynamical systems V S Gerdjikov und weitere Integrable and super integrable systems in classical and quantum mechanics M Giordano und weitere Non commuting coordinates in vortex dynamics and in the Hall effect related to exotic Galilean symmetry P A Horvathy Structure of multi meron knot action L S Isaev A P Protogenov Compatible nonlocal Poisson brackets of hydrodynamic type and integrable reductions of the Lam equations O I Mokhov Pseudoanti Hermiticity in QQM time reversal and Kramers

degeneracy G Sclarici On the integrability of supersymmetric equations P Tempesta R A Leo G Soliani **Nonlinear Klein-gordon And Schrodinger Systems: Theory And Applications** Luis Vazquez, Ludwig Streit, Victor Manuel Perez-garcia, 1996-06-20 This is the first of two Euroconferences aimed at addressing the issues of Nonlinearity and Disorder The 1995 Euroconference was devoted to the mathematical numerical and experimental studies related to the Klein Gordon and Schrödinger systems The Euroconference was organized around main lectures in each area to introduce the main concepts and stimulate discussions The mathematical studies covered the functional analysis and stochastic techniques applied to the general Klein Gordon and Schrödinger wave equations Also a panoramic view of the numerical schemes was presented to simulate the above equations as well as an overview of the applications of such systems in the areas of condensed matter optical physics new materials and biophysics Special attention was devoted to the discrete Schrödinger and Klein Gordon systems and their applications Journal of Nonlinear Mathematical Physics Vol. 14 , *Nonlinear Physics: Theory And Experiment II, Proceedings Of The Workshop* Barbara Prinari, M Boiti, F Pempinelli, Mark J Ablowitz, 2003-04-08 The theory of solitons involves a broad variety of mathematical methods and appears in many areas of physics technology biology and pure and applied mathematics In this book emphasis is placed on both theory considering mathematical approaches for classical and quantum nonlinear systems both continuous and discrete and experiment with special discussions on high bit rate optical communications and pulse dynamics in optical materials **Future Directions of Nonlinear Dynamics in Physical and Biological Systems** P.L. Christiansen, J.C. Eilbeck, R.D. Parmentier, 2013-11-11 Early in 1990 a scientific committee was formed for the purpose of organizing a high level scientific meeting on Future Directions of Nonlinear Dynamics in Physical and Biological Systems in honor of Alwyn Scott's 60th birthday December 25 1991 As preparations for the meeting proceeded they were met with an unusually broad scale and high level of enthusiasm on the part of the international nonlinear science community resulting in a participation by 168 scientists from 23 different countries in the conference which was held July 23 to August 11 1992 at the Laboratory of Applied Mathematical Physics and the Center for Modelling Nonlinear Dynamics and Irreversible Thermodynamics MIDIT of the Technical University of Denmark During the meeting about 50 lectures and 100 posters were presented in 9 working days The contributions to this present volume have been grouped into the following chapters 1 Integrability Solitons and Coherent Structures 2 Nonlinear Evolution Equations and Diffusive Systems 3 Chaotic and Stochastic Dynamics 4 Classical and Quantum Lattices and Fields 5 Superconductivity and Superconducting Devices 6 Nonlinear Optics 7 Davydov Solitons and Biomolecular Dynamics 8 Biological Systems and Neurophysics Al Scott has made early and fundamental contributions to many of these different areas of nonlinear science They form an important subset of the total number of the papers and posters presented at the meeting Other papers from the meeting are being published in a special issue of Physica D Nonlinear Phenomena **Stochastic Dynamics Of Reacting Biomolecules** Werner Ebeling, Yuri M Romanovsky, Lutz Schimansky-geier, 2003-01-29 This is a

book about the physical processes in reacting complex molecules particularly biomolecules In the past decade scientists from different fields such as medicine biology chemistry and physics have collected a huge amount of data about the structure dynamics and functioning of biomolecules Great progress has been achieved in exploring the structure of complex molecules However there is still a lack of understanding of the dynamics and functioning of biological macromolecules In particular this refers to enzymes which are the basic molecular machines working in living systems This book contributes to the exploration of the physical mechanisms of these processes focusing on critical aspects such as the role of nonlinear excitations and of stochastic effects An extensive range of original results has been obtained in the last few years by the authors and these results are presented together with a comprehensive survey of the state of the art in the field

Proceedings of the First Workshop on Biological Physics 2000 Virulh Sa-yakanit,Hans Frauenfelder,Stig Lundqvist,2001 This book is devoted to the broad subject of flavor physics embracing the question of what distinguishes one type of elementary particles from another The articles range from the forefront of formal theory treating the physics of extra dimensions to details of particle detectors Although special emphasis is placed on the physics of kaons charmed and beauty particles top quarks and neutrinos the articles also dealing with electroweak physics quantum chromodynamics supersymmetry and dynamical electroweak symmetry breaking Violations of fundamental symmetries such as time reversal invariance are discussed in the context of neutral kaons beauty particles electric dipole moments and parity violation in atoms The physics of the Cabibbo Kobayashi Maskawa matrix and of quark masses are described in some detail both from the standpoint of present and future experimental knowledge and from a more fundamental viewpoint where physicists are still searching for the correct theory

Dynamical Networks in Physics and Biology D. Beysens,G. Forgacs,2013-06-29 The 1997 Les Houches workshop on Dynamical Network in Physics and Biology was the third in a series of meetings At the Frontier between Physics and Biology Our objective with these workshops is to create a truly interdisciplinary forum for researchers working on outstanding problems in biology but using different approaches physical chemical or biological Generally speaking the biologists are trained in the particular and motivated by the specifics while in contrast the physicists deal with generic and universal models All agree about the necessity of developing robust models The specific aim of the workshop was to bridge the gap between physics and biology in the particular field of interconnected dynamical networks The proper functioning of a living organism of any complexity requires the coordinated activity of a great number of units Units or in physical terms degrees of freedom that couple to one another typically form networks The physical or biological properties of interconnected networks may drastically differ from those of the individual units the whole is not simply an assembly of its parts as can be demonstrated by the following examples Above a certain critical concentration the metallic islands randomly distributed in an insulating matrix form an interconnected network At this point the macroscopic conductivity of the system becomes finite and the amorphous metal is capable of carrying current The value of the macroscopic conductivity typically is very different

from the conductivity of the individual metallic islands

Proceedings of the Workshop on Nonlinearity, Integrability and All That--Twenty Years After NEEDS '79 M. Boiti, 2000 This book discusses achievements in the last 20 years recent developments and future perspectives in nonlinear science Both continuous and discrete systems classical and quantum are considered *Nonlinear Physics: Theory And Experiment : Nature, Structure And Properties Of Nonlinear Phenomena - Proceedings Of The First Conference* Eleonora Alfinito, M Boiti, Luigi Martina, F Pempinelli, 1996-06-20 This volume constitutes the proceedings of the Workshop Nonlinear Physics Theory and Experiment held in Gallipoli Lecce Italy from June 29 to July 7 1995 The purpose of the Workshop was to bring together scientists whose common interest is the nature structure and properties of nonlinear phenomena in various areas of physics and applied mathematics The purpose of the Workshop was to bring together scientists whose common interest is the nature structure and properties of nonlinear phenomena in various areas of physics and applied mathematics In fact topics covered at the Workshop run from nonlinear optics to molecular dynamics plasma waves hydrodynamics quantum electronics and solid state and from inverse scattering transform methods to dynamical systems including integrability hamiltonian structures geometrical aspects turbulence and chaos

Fourth Granada Lectures in Computational Physics Pedro L. Garrido, Joaquin Marro, 2013-12-20 The methods developed to deal with the computational aspects of physical problems are useful in an increasing number of situations from chemistry biology and geology to engineering communications and economics In fact computational physics has evolved into a trans disciplinary field now concerned with the creative use of computers in scientific research More over computational methods often help students to develop a deeper understanding of key concepts and enhance their problem solving abilities Therefore computational physics is recognized as having an important educational value and educators face the task of outlining appropriate curricula to take advantage of these unique features This is an important motivation for the publication of the contents of the Seminar on Computational Physics which is held in Granada every two years The seminar aims at bringing together small groups of students and active researchers on different aspects of computational physics It is part of the doctoral programme of the University of Granada The proceedings of the previous editions were published as II Granada Lectures in Computational Physics World Scientific Singapore 1993 and Third Granada Lectures in Computational Physics Lecture Notes in Physics vol 448 Springer Berlin 1995 by the same editors The present book contains the invited lecture notes and a very brief account of contributions by participants at the 4th Granada Seminar on Computational Physics Granada Spain 9-14 September 1996

Energy Localisation And Transfer Thierry Dauxois, Anna Litvak-hinenzon, Anna Spanoudaki, Robert S Mackay, 2004-02-09 This book provides an introduction to localised excitations in spatially discrete systems from the experimental numerical and mathematical points of view Also known as discrete breathers nonlinear lattice excitations and intrinsic localised modes these are spatially localised time periodic motions in networks of dynamical units Examples of such networks are molecular crystals biomolecules and arrays of Josephson superconducting junctions The book

also addresses the formation of discrete breathers and their potential role in energy transfer in such systems *Fluctuation Phenomena: Disorder And Nonlinearity - Proceedings Of The International Workshop* Luis Vazquez, A R Bishop, S Jimenez, 1995-05-04 This book addresses the issues of nonlinearity and disorder It covers mathematical and numerical techniques as well as applications of nonlinearity and disorder The analysis of continuous and discrete systems is also shown

Biological Physics 2000, Proceedings Of The First Workshop Hans Frauenfelder, Leif Matsson, Virulh Sa-yakanit, 2001-09-20 Like inanimate matter biological matter is condensed though it may be more complex However a living cell is a chemically open system with biological functions that are often a nonstationary nonlinear type of collective phenomena driven by chemical reactants e g ATP GTP ligands and receptors The living cell and many of its subsystems are hence lyotropic systems depending on various reactant concentrations rather than the temperature Nonlocal and local correlations of the interacting molecules become the prerequisites for signal transduction This book constitutes the proceedings of the workshop entitled Biological Physics 2000 **Workshop on Molecular Dynamics on Parallel**

Computers Rüdiger Esser, 2000 Molecular dynamics is a well established technique for simulating complex many particle systems in many areas of physics chemistry and astrophysics The huge computational requirements for simulations of large systems especially with long range forces demand the use of massively parallel computers Designing efficient algorithms for these problems is a highly non trivial task This book contains the invited talks and abstracts presented at a conference by more than 100 researchers from various fields computer science solid state physics high energy physics polymers biochemistry granular materials and astrophysics Most of the contributions have been written by users of massively parallel computers and deal with practical issues but there are also contributions tackling more fundamental algorithmic problems

Voltage-Sensitive Ion Channels H. Richard Leuchtag, 2008-12-21 The goal of this book is to explore the complexity of a microscopic bit of matter that exists in a myriad of copies within our bodies the voltage sensitive ion channel We seek to investigate the way in which these macromolecules make it possible for the long fibers of our nerve and muscle cells to conduct impulses These integral components of cell membranes are marvels of nature s evolutionary adaptation To understand them we must probe the boundaries of physics and chemistry Since function is intimately related to structure we examine the molecular structure of channels focusing on physical principles that govern all matter With the application of genetic methods our knowledge of ion channels has broadened and deepened In the hope that research can help ameliorate suffering we discuss the diseases that arise from channel malfunctions due to genetic mutations This book is intended for students and scientists who are willing to travel into uncharted waters of an interdisciplinary science We approach the subject of volta sensitive ion channels from various points of view This book seeks to give voice to the viewpoints of the physical and the biological scientist and to bridge gaps in terminology and background Readers may find this book to have both elementary and advanced aspects For the reader trained in the biological sciences it reviews background in physics and

chemistry for the reader trained in the physical sciences it reviews background in physiology and biochemistry

Introduction to Molecular Biophysics Jack A. Tuszynski, Michal Kurzynski, 2003-02-26 Molecular biophysics is a rapidly growing field of research that plays an important role in elucidating the mysteries of life's molecules and their assemblies as well as the relationship between their structure and function Introduction to Molecular Biophysics fills an existing gap in the literature on this subject by providing the reader with the **Computational Molecular Dynamics: Challenges, Methods, Ideas** Peter Deuffhard, Jan Hermans, Benedict Leimkuhler, Alan E. Mark, Sebastian Reich, Robert D. Skeel, 2012-12-06 On May 21-24 1997 the Second International Symposium on Algorithms for Macromolecular Modelling was held at the Konrad Zuse Zentrum in Berlin The event brought together computational scientists in fields like biochemistry biophysics physical chemistry or statistical physics and numerical analysts as well as computer scientists working on the advancement of algorithms for a total of over 120 participants from 19 countries In the course of the symposium the speakers agreed to produce a representative volume that combines survey articles and original papers all refereed to give an impression of the present state of the art of Molecular Dynamics The 29 articles of the book reflect the main topics of the Berlin meeting which were i Conformational Dynamics ii Thermodynamic Modelling iii Advanced Time Stepping Algorithms iv Quantum Classical Simulations and Fast Force Field and v Fast Force Field Evaluation

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