



NATO Advanced Study Institute

Slow relaxations and nonequilibrium dynamics  
in condensed matter

Les Houches



Session LXXVII

Relaxations lentes et dynamiques hors d'équilibre  
en physique de la matière condensée

J.-L. Barrat, M. Feigelman, J. Kurchan  
and J. Dalibard

Editors



Springer

# Slow Relaxations And Nonequilibrium Dynamics In Condensed Matter

**Pierre-Francois Cohadon, Jack  
Harris, Leticia Cugliandolo, Florian  
Marquardt**



## **Slow Relaxations And Nonequilibrium Dynamics In Condensed Matter:**

*Slow Relaxations and Nonequilibrium Dynamics in Condensed Matter*, 2003

## **Slow Relaxations and**

**Nonequilibrium Dynamics in Condensed Matter** Jean-Louis Barrat, Michail Victorovich Feigelman, Jorge Kurchan, Jean Dalibard, 2003-06-26 Intended for graduate students in physics and chemistry this book touches on granular matter protein folding phase separating and evolution kinetics Taking glasses as a central theme it presents the problem of slow dynamics from several angles a ubiquitous feature in condensed matter mechanics and biological physics Some of the best established workers in the field present different theoretical and experimental approaches to the subject *Condensed Matter Theories* Eduardo V. Ludeña, Raymond F. Bishop, Peter Iza, 2011 The orientation and physical context of the CMT Series of Workshops have always been cross disciplinary but with an emphasis placed on the common concerns of theorists applying many particle concepts in diverse areas of physics In this spirit CMT33 chose to focus special attention on exotic fermionic and bosonic systems quantum magnets and their quantum and thermal phase transitions novel condensed matter systems for renewable energy sources the physics of nanosystems and nanotechnology and applications of molecular dynamics and density functional theory

**Metastable Glassy States Under External Perturbations** Corrado Rainone, 2017-06-27 This thesis presents a theoretical analysis of the behavior of glasses under external perturbations i.e compression and shear straining Written in a pedagogical style it explains every facet of the problem in detail including many crucial steps that cannot be found in the existing literature making it particularly useful for students and as an introduction to the subject of glassy physics In glassy systems the behavior under external compression and shear strain is quite peculiar Many complex phenomena are observed and grasping them fully would be a major step toward a complete theory of the glass transition This thesis makes important advances in this direction analyzing the behavior of glassy states in painstaking detail and reproducing it in the framework of a recently developed mean field theory for glasses that has proven extremely successful for jamming demonstrating its predictive power in the context of metastable glassy states obtained through nonequilibrium protocols

**Theory of Simple Glasses** Giorgio Parisi, Pierfrancesco Urbani, Francesco Zamponi, 2020-01-09 This self contained text describes the modern mean field theory of simple structural glasses using a quantum statistical mechanical approach Describing the theory in clear and simple terms this is a valuable resource for graduate students and researchers working in condensed matter physics and statistical mechanics

*Viscoelastic Interfaces Driven in Disordered Media* François P. Landes, 2015-07-09 This book offers an in depth study of two well known models of avalanche dynamics modified minimally by the inclusion of relaxation Many complex systems respond to continuous inputs of energy by accumulation of stress over time interrupted by sudden energy releases called avalanches The first model studied is the viscoelastic interface driven over disorder which is shown to display the fundamental features of friction In the mean field limit the friction force derived semi analytically is compatible with laboratory experiments displaying both velocity weakening and contact aging In

two dimensions large scale numerical simulations are in good agreement with the basic features of real earthquakes  
Gutenberg Richter Law aftershock migration The second model is a non Markovian variant of Directed Percolation in which we observe that the universality class is only partly modified by relaxation a promising finding with respect to our first model

**Random Fields and Spin Glasses** Cirano De Dominicis,Irene Giardina,2006-10-26 The book introduces some useful and little known techniques in statistical mechanics and field theory including multiple Legendre transforms supersymmetry Fourier transforms on a tree infinitesimal permutations and Ward Takahashi Identities Jacket **Quantum Optics and Nanophotonics** Claude Fabre,Vahid Sandoghdar,Nicolas Treps,Leticia F. Cugliandolo,2017-09-15 Quantum Optics and Nanophotonics consists of the lecture notes of the Les Houches Summer School 101 held in August 2013 Some of the most eminent experts in this flourishing area of research have contributed chapters lying at the intersection of basic quantum science and advanced nanotechnology The book is part of the renowned series of tutorial books that contain the lecture notes of all the Les Houches Summer Schools since the 1950 s and cover the latest developments in physics and related fields

Quantum Optomechanics and Nanomechanics Pierre-Francois Cohadon,Jack Harris,Leticia Cugliandolo,Florian Marquardt,2020 This book fully covers all aspects historical theoretical and experimental of the fields of quantum optomechanics and nanomechanics These are essential parts of modern physics research and relate to gravitational wave detection the subject of the Physics Nobel Prize 2017 and quantum information **Integrability: from Statistical Systems to Gauge Theory** Patrick Dorey,Gregory Korchemsky,Nikita Nekrasov,Volker Schomerus,Didina Serban,2019 This volume contains lectures delivered at the Les Houches Summer School Integrability from statistical systems to gauge theory held in June 2016 The School was focussed on applications of integrability to supersymmetric gauge and string theory a subject of high and increasing interest in the mathematical and theoretical physics communities over the past decade Relevant background material was also covered with lecture series introducing the main concepts and techniques relevant to modern approaches to integrability conformal field theory scattering amplitudes and gauge string duality The book will be useful not only to those working directly on integrability in string and gauge theories but also to researchers in related areas of condensed matter physics and statistical mechanics *Current Trends in Atomic Physics* Antoine Browaeys,Thierry Lahaye,Trey Porto,Charles S. Adams,Matthias Weidemüller,Leticia F. Cugliandolo,2019 Atomic physics provides a paradigm for exploring few body quantum systems with unparalleled control Recently this has been applied in diverse areas including condensed matter physics high energy physics and foundations of quantum physics This book addresses these topics by presenting developments and current trends **Mathematical Statistical Physics** ,2006-06-27 The proceedings of the 2005 les Houches summer school on Mathematical Statistical Physics give a broad and clear overview on this fast developing area of interest to both physicists and mathematicians Introduction to a field of math with many interdisciplinary connections in physics biology and computer science Roadmap to the next decade of mathematical statistical mechanics

Volume for reference years to come      **Glassy Materials and Disordered Solids** Kurt Binder,Walter Kob,2011 This book gives a pedagogical introduction to the physics of amorphous solids and related disordered condensed matter systems Important concepts from statistical mechanics such as percolation random walks fractals and spin glasses are explained Using these concepts the common aspects of these systems are emphasized and the current understanding of the glass transition and the structure of glasses are concisely reviewed This second edition includes new material on emerging topics in the field of disordered systems such as gels driven systems dynamical heterogeneities growing length scales etc as well as an update of the literature in this rapidly developing field      **The Physics of Complex Systems (New Advances and Perspectives)** F. Mallamace,H.E. Stanley,2004-11-24 It is widely known that complex systems and complex materials comprise a major interdisciplinary scientific field that draws on mathematics physics chemistry biology and medicine as well as such social sciences as economics The role of statistical physics in this new field has been expanding Statistical physics has shown how phenomena and processes in different research areas that have long been assumed to be unrelated can have a common description Through the application of statistical physics methods developed for studying order phenomena in simple systems and processes have been generalized to more complex systems The two conceptual pillars in this approach are scaling and universality This volume focuses on recent advances and perspectives in the physics of complex systems and provides both an overview of the field and a more detailed examination of the new ideas and unsolved problems that are currently attracting the attention of researchers This book should be a useful reference work for anyone interested in this area whether beginning graduate student or advanced research professional It provides up to date reviews on cutting edge topics compiled by leading authorities and is designed to both broaden the reader s competence within their own field and encourage the exploration of new problems in related fields      **Unifying Concepts in Granular Media and Glasses** Antonio Coniglio,Annalisa Fierro,Hans J. Herrmann,Mario Nicodemi,2004-06-30 Deep connections are emerging in the physics of non thermal systems such as granular media and other complex systems such as glass formers spin glasses colloids or gels This book discusses the unifying physical theories developed in recent years for the description of these systems The special focus of the book is on recent important developments in the formulation of a Statistical Mechanics approach to granular media and the description of out of equilibrium dynamics such as jamming phenomena ubiquitous in these complex systems The book collects contributions from leading researchers in these fields providing both an introduction at a graduate level to these rapidly developing subjects and featuring an up to date self contained presentation of theoretical and experimental developments for researchers in areas ranging from Chemistry to Engineering and Physical Sciences the book discusses very hot topics in physical sciences it includes contributions from the most prominent researchers in the area it is clearly written and self contained      *Dynamics & Stochastics* Michael S. Keane,Dee Denteneer, Frank Hollander,Evgeny Verbitskiy,2006      **Condensed Matter Theories, Volume 25 - Proceedings Of The**

**33rd International Workshop** Eduardo V Ludena, Raymond F Bishop, Peter Iza, 2011-03-04 The orientation and physical context of the CMT Series of Workshops have always been cross disciplinary but with an emphasis placed on the common concerns of theorists applying many particle concepts in diverse areas of physics In this spirit CMT33 chose to focus special attention on exotic fermionic and bosonic systems quantum magnets and their quantum and thermal phase transitions novel condensed matter systems for renewable energy sources the physics of nanosystems and nanotechnology and applications of molecular dynamics and density functional theory a Stealing the Gold Paul M. Goldbart, Nigel Goldenfeld, David Sherrington, 2005 This title presents a survey of some of the most exciting topics in condensed matter physics today from the perspective of the pioneering work of Sam Edwards Original articles from leaders in the field highlight the historical development as well as new and emerging areas

**Handbook of Satisfiability** Armin Biere, Hans van Maaren, Toby Walsh, 2009-01-15 Satisfiability SAT related topics have attracted researchers from various disciplines logic applied areas such as planning scheduling operations research and combinatorial optimization but also theoretical issues on the theme of complexity and much more they all are connected through SAT My personal interest in SAT stems from actual solving The increase in power of modern SAT solvers over the past 15 years has been phenomenal It has become the key enabling technology in automated verification of both computer hardware and software Bounded Model Checking BMC of computer hardware is now probably the most widely used model checking technique The counterexamples that it finds are just satisfying instances of a Boolean formula obtained by unwinding to some fixed depth a sequential circuit and its specification in linear temporal logic Extending model checking to software verification is a much more difficult problem on the frontier of current research One promising approach for languages like C with finite word length integers is to use the same idea as in BMC but with a decision procedure for the theory of bit vectors instead of SAT All decision procedures for bit vectors that I am familiar with ultimately make use of a fast SAT solver to handle complex formulas Decision procedures for more complicated theories like linear real and integer arithmetic are also used in program verification Most of them use powerful SAT solvers in an essential way Clearly efficient SAT solving is a key technology for 21st century computer science I expect this collection of papers on all theoretical and practical aspects of SAT solving will be extremely useful to both students and researchers and will lead to many further advances in the field Edmund Clarke FORE Systems University Professor of Computer Science and Professor of Electrical and Computer Engineering at Carnegie Mellon University winner of the 2007 A M Turing Award

**Complex Systems** , 2011-09-22 There has been recently some interdisciplinary convergence on a number of precise topics which can be considered as prototypes of complex systems This convergence is best appreciated at the level of the techniques needed to deal with these systems which include 1 A domain of research around a multiple point where statistical physics information theory algorithmic computer science and more theoretical probabilistic computer science meet this covers some aspects of error correcting codes stochastic optimization algorithms typical case complexity

and phase transitions constraint satisfaction problems 2 The study of collective behavior of interacting agents its impact on understanding some types of economical and financial problems their link to population and epidemics dynamics game theory social biological and computer networks and evolution The present book is the written version of the lectures given during the Les Houches summer school session on Complex Systems devoted to these emerging interdisciplinary fields The lectures consist both in a number of long methodological courses probability theory statistical physics of disordered systems information theory network structure and evolution agent based economics and numerical methods and more specific problem oriented courses Lecturers are all leading experts in their field they have summarized recent results in a clear and authoritative manner The Les Houches lecture notes have a long tradition of excellence and are often found to be useful for a number of years after they were written The book is of interest to students and researchers with various backgrounds probability theory computer science information theory physics finance biology etc Topical and comprehensive survey of the emerging interdisciplinary field of Complex Systems covered by recognized world experts Les Houches lectures notes a long tradition of excellence and long lasting impact Of interest to a broad audience mathematics physics biology informatics finance geology etc Some applications may have concrete impact Selected topics in complex systems forefront of research in the field

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