

Nonequilibrium Phase Transitions in Lattice Models

JOAQUÍN MARÍN
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Nonequilibrium Phase Transitions In Lattice Models:

Nonequilibrium Phase Transitions in Lattice Models Joaquin Marro, Ronald Dickman, 1999-05-06 This book provides an introduction to nonequilibrium statistical physics via lattice models. Beginning with an introduction to the basic driven lattice gas the early chapters discuss the relevance of this lattice model to certain natural phenomena and examine simulation results in detail. Several possible theoretical approaches to the driven lattice gas are presented. In the next two chapters absorbing state transitions are discussed in detail. The later chapters examine a variety of systems subject to dynamic disorder before returning to look at the more surprising effects of multiparticle rules, nonunique absorbing states and conservation laws. Examples are given throughout the book the emphasis being on using simple representations of nature to describe ordering in real systems. The use of methods such as mean field theory, Monte Carlo simulation and the concept of universality to study and interpret these models is described. Detailed references are included.

Nonequilibrium Phase Transitions in Lattice Models Joaquin Marro, Ronald Dickman, 2005-09-08 This book provides an introduction to nonequilibrium statistical physics via lattice models. Beginning with an introduction to the basic driven lattice gas the early chapters discuss the relevance of this lattice model to certain natural phenomena examining simulation results in detail. Later chapters discuss absorbing state transitions and examine a variety of systems subject to dynamic disorder. The book discusses the effects of multiparticle rules, nonunique absorbing states and conservation laws as well as the use of methods such as mean field theory, Monte Carlo simulation and the concept of universality. It also includes detailed references and examples using simple representations of nature to describe real systems.

Non-Equilibrium Phase Transitions Malte Henkel, Haye Hinrichsen, Sven Lübeck, 2008-11-27 This book describes two main classes of non equilibrium phase transitions static and dynamics of transitions into an absorbing state and dynamical scaling in far from equilibrium relaxation behavior and ageing.

Absorbing State Transitions in Clean and Disordered Lattice Models Man Young Lee, 2011

Nonequilibrium systems can undergo continuous phase transitions between different steady states. These transitions are characterized by collective fluctuations over large distances and long times similar to the behavior of equilibrium critical points. They also can be divided into different universality classes according to their critical behavior. This dissertation considers two types of nonequilibrium transitions. First study concerns absorbing state transitions on a randomly diluted lattice. Second study deals with nonequilibrium models with several absorbing states. We investigate two specific nonequilibrium lattice models i.e. the contact process and the generalized contact process by means of both theoretical and computational approaches. In section 1 we introduce the basic arguments and theories to support our investigations for both problems. In sections 2 and 3 we investigate nonequilibrium phase transitions of the contact process and the generalized contact process on a percolating lattice focusing on the transition across the lattice percolation threshold. In this study we show that the interplay between geometric criticality due to percolation and dynamical fluctuations of the nonequilibrium

system leads to a new universality class. The critical point is characterized by ultra slow activated dynamical scaling and accompanied by strong Griffiths singularities. We support our theory by extensive Monte Carlo simulations. In sections 4 and 5 we investigate the generalized contact process on one and two dimensional lattices. We treat the creation rate of active sites between inactive domains as an independent parameter. It turns out that this model has an unusual phase diagram with two different nonequilibrium phase transitions. The special point separating them shares some characteristics with a multicritical point. For one dimension a small boundary rate takes the system from the directed percolation universality class to the parity conserved class. For two dimensions the critical behavior on the generic transition line is of mean field type with logarithmic corrections suggesting that the two dimensional generalized contact process is in the generalized voter universality class.

Abstract leaf iv **Phase Transitions and Surface Growth in Nonequilibrium Lattice Models** Thomas Michael

Martyne,2021 **Nonequilibrium Statistical Physics** Roberto Livi,Paolo Politi,2017-10-05 Statistical mechanics has been proven to be successful at describing physical systems at thermodynamic equilibrium. Since most natural phenomena occur in nonequilibrium conditions the present challenge is to find suitable physical approaches for such conditions. This book provides a pedagogical pathway that explores various perspectives. The use of clear language and explanatory figures and diagrams to describe models simulations and experimental findings makes the book a valuable resource for undergraduate and graduate students and also for lecturers organizing teaching at varying levels of experience in the field. Written in three parts it covers basic and traditional concepts of nonequilibrium physics modern aspects concerning nonequilibrium phase transitions and application orientated topics from a modern perspective. A broad range of topics is covered including Langevin equations Levy processes directed percolation kinetic roughening and pattern formation

Parallel Algorithms

and Cluster Computing Karl Heinz Hoffmann,Arnd Meyer,2007-06-24

High performance computing has changed the way in which science progresses. During the last 20 years the increase in computing power the development of effective algorithms and the application of these tools in the area of physics and engineering has been decisive in the advancement of our technological world. These abilities have allowed to treat problems with a complexity which had been out of reach for analytical approaches. While the increase in performance of single processes has been immense the increase of massive parallel computing as well as the advent of cluster computers has opened up the possibilities to study realistic systems. This book presents major advances in high performance computing as well as major advances due to high performance computing. The progress made during the last decade rests on the achievements in three distinct science areas. Open and pressing problems in physics and mechanical engineering are the driving force behind the development of new tools and new approaches in these science areas. The treatment of complex physical systems with frustration and disorder the analysis of the elastic and non elastic movement of solids as well as the analysis of coupled uid systems pose problems which are open to a numerical analysis only with state of the art computing power and

algorithms The desire of scientific accuracy and quantitative precision leads to an enormous demand in computing power Asking the right questions in these areas lead to new insights which have not been available due to other means like experimental measurements These second are which is decisive before effective high performance computing is a realm of effective algorithms **Self-Organized Criticality, Three Decades Later** Subhrangshu Sekhar Manna, Attilio L. Stella, Peter Grassberger, Ronald Dickman, 2022-01-28 [Order, Disorder And Criticality: Advanced Problems Of Phase Transitions And Complex Systems - Volume 8](#) Yurij Holovatch, 2024-10-08 This book is the eighth volume of review chapters on advanced problems of phase transitions and critical phenomena in complex systems The aim of the book is to provide reviews in those aspects of criticality and related subjects that attract currently much attention due to essential new contributions The current volume consists of five chapters They discuss various aspects of studies in the field of critical phenomena as well as criticality of complex systems where the new emergent properties appear via collective behaviour of simple elements Since all complex systems involve cooperative behaviour between many interconnected components the field of phase transitions and critical phenomena provides a very natural conceptual and methodological framework for their study As with the first seven volumes this book is based on the review lectures that were given in Lviv Ukraine at the Ising lectures a traditional annual workshop on complex systems phase transitions and critical phenomena which aims to bring together experts in these fields with university students and those who are interested in the subject

Rare Events and Phase Transitions in Reaction-diffusion Systems Vlad Elgart, 2006 **Stochastic Dynamics and Irreversibility** Tânia Tomé, Mário J. de Oliveira, 2014-11-26 This textbook presents an exposition of stochastic dynamics and irreversibility It comprises the principles of probability theory and the stochastic dynamics in continuous spaces described by Langevin and Fokker Planck equations and in discrete spaces described by Markov chains and master equations Special concern is given to the study of irreversibility both in systems that evolve to equilibrium and in nonequilibrium stationary states Attention is also given to the study of models displaying phase transitions and critical phenomena both in thermodynamic equilibrium and out of equilibrium These models include the linear Glauber model the Glauber Ising model lattice models with absorbing states such as the contact process and those used in population dynamic and spreading of epidemic probabilistic cellular automata reaction diffusion processes random sequential adsorption and dynamic percolation A stochastic approach to chemical reaction is also presented The textbook is intended for students of physics and chemistry and for those interested in stochastic dynamics It provides by means of examples and problems a comprehensive and detailed explanation of the theory and its applications **Non-equilibrium Phase Transitions and Ordering Processes in Lattice-gas Models** J. Vitting Andersen, Technical University of Denmark, Department of Physical Chemistry, 1991 [Universality In Nonequilibrium Lattice Systems: Theoretical Foundations](#) Geza Odor, 2008-05-08 Universal scaling behavior is an attractive feature in statistical physics because a wide range of models can be classified purely in terms of their collective behavior due to a

diverging correlation length This book provides a comprehensive overview of dynamical universality classes occurring in nonequilibrium systems defined on regular lattices The factors determining these diverse universality classes have yet to be fully understood but the book attempts to summarize our present knowledge taking them into account systematically The book helps the reader to navigate in the zoo of basic models and classes that were investigated in the past decades using field theoretical formalism and topological diagrams of phase spaces Based on a review in Rev Mod Phys by the author it incorporates surface growth classes classes of spin models percolation and multi component system classes as well as damage spreading transitions The success of that review can be quantified by the more than one hundred independent citations of that paper since 2004 The extensions in this book include new topics like local scale invariance tricritical points phase space topologies nonperturbative renormalization group results and disordered systems that are discussed in more detail This book also aims to be more pedagogical providing more background and derivation of results Topological phase space diagrams introduced by Kamenev Physical Review E 2006 very recently are used as a guide for one component reaction diffusion systems

Computer Simulation Studies in Condensed-Matter Physics XVI David P. Landau, Steven P. Lewis, 2004-09 This status report features the most recent developments in the field spanning a wide range of topical areas in the computer simulation of condensed matter materials physics Highlights of this volume include various aspects of non equilibrium statistical mechanics studies of properties of real materials using both classical model simulations and electronic structure calculations and the use of computer simulation in teaching

Journal of the Physical Society of Japan Nihon Butsuri Gakkai, 2010

Complex Systems Horacio S. Wio, M. A. Rodríguez, L. Pesquera, 2007 *Modeling of Complex Systems* P. Garrido, Joaquín Marro, 2003-04-04 Annotation The seminar is a small topical conference whose pedagogical focus is on young researchers The 34 main lectures and other invited talks discuss such topics as exploring complex graphs by random walks critical behavior of binary production reaction diffusion systems the plastic phase of driven vortex crystals real space statistical properties of standard cosmological models and basic concepts and physical implementations of quantum computation In addition 40 half page abstracts summarize a selection of contributed papers Those topics include the Yaldran Khan catalyzed reaction model the role of interfaces in the propagation of damage in the confined Ising model and theories of the motion of the satellites of Mars There is no indexing other than an author list Annotation c 2003 Book News Inc Portland OR booknews.com

Physical Review, 2000-09 **25 Years of Non-Equilibrium Statistical Mechanics** J.J. Brey, 1995-09-18 The book aims to give an overview of the previous Sitges Conferences which have been held during the last 25 years with special emphasis on topics related to non equilibrium phenomena It includes review articles and articles dealing with new trends in the subject written by scientists who have played an important role in the development of this area The book is intended as a commemorative edition of the Sitges Conferences Graduate students of physics and researchers will find this a stimulating account of the development of non equilibrium statistical mechanics in the last years

covering a wide scope of topics kinetic theory hydrodynamics fluctuation phenomena and stochastic processes relaxation phenomena kinetics of phase transitions growth kinetics and so on **Modeling Complex Systems** Pedro L. Garrido, Joaquín Marro, 2001-06-21 This is the sixth volume of a series of Granada Lectures The Granada Seminar is defined as a small topical conference whose pedagogical power is specially directed towards young researchers This seminar mainly covered the modeling of complex systems with emphasis on its computational aspects This timely topic importantly relies on the creative use of computers and it is of interest in an increasing number of situations from chemistry biology and geology to engineering communications and economics In particular each topic is comprehensively described and some practical exercises are proposed This series of books is intended for the beginner to introduce himself to the creative use of computers in scientific research and serves as a reference work for teachers students and researchers

Reviewing **Nonequilibrium Phase Transitions In Lattice Models**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is actually astonishing. Within the pages of "**Nonequilibrium Phase Transitions In Lattice Models**," an enthralling opus penned by a highly acclaimed wordsmith, readers embark on an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve to the book's central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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