



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

**Patrick Dorey, Gregory
Korchemsky, Nikita Nekrasov, Volker
Schomerus, Didina Serban**

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, 2004-02-25 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 Active Matter and Nonequilibrium Statistical Physics Julien Tailleur, Gerhard Gompper, M. Cristina Marchetti, Julia M. Yeomans, Christophe Salomon, 2022 The topic of the CXII session of the Les Houches Summer School held in September 2018 was Active Matter and Nonequilibrium Statistical Physics offering a broad introduction to the foundations and modern applications of active matter and nonequilibrium physics *Condensed Matter Theories* Eduardo V. Ludena, 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 *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 **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 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 **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

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

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