

MICHEL TALAGRAND

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A Series
of Modern
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Spin Glasses : A Challenge for Mathematicians

Cavity and Mean Field Models



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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

Correlated Random Systems: Five Different Methods Véronique Gayrard,Nicola Kistler,2015-06-09 This volume presents five different methods recently developed to tackle the large scale behavior of highly correlated random systems such as spin glasses random polymers local times and loop soups and random matrices These methods presented in a series of lectures delivered within the Jean Morlet initiative Spring 2013 play a fundamental role in the current development of probability theory and statistical mechanics The lectures were Random Polymers by E Bolthausen Spontaneous Replica Symmetry Breaking and Interpolation Methods by F Guerra Derrida s Random Energy Models by N Kistler Isomorphism Theorems by J Rosen and Spectral Properties of Wigner Matrices by B Schlein This book is the first in a co edition between the Jean Morlet Chair at CIRM and the Springer Lecture Notes in Mathematics which aims to collect together courses and lectures on cutting edge subjects given during the term of the Jean Morlet Chair as well as new material produced in its wake It is targeted at researchers in particular PhD students and postdocs working in probability theory and statistical physics

Statistical Mechanics of Lattice Systems Sacha Friedli,Yvan Velenik,2017-11-23 A self contained mathematical introduction to the driving ideas in equilibrium statistical mechanics studying important models in detail **European Congress of Mathematics** Ari Laptev,2005 The European Congress of Mathematics held every four years has established itself as a major international mathematical event Following those in Paris 1992 Budapest 1996 and Barcelona 2000 the Fourth European Congress of Mathematics took place in Stockholm Sweden June 27 to July 2 2004 with 913 participants from 65 countries Apart from seven plenary and thirty three invited lectures there were six Science Lectures covering the most relevant aspects of mathematics in science and technology Moreover twelve projects of the EU Research Training Networks in Mathematics and Information Sciences as well as Programmes from the European Science Foundation in Physical and Engineering Sciences were presented Ten EMS Prizes were awarded to young European mathematicians who have made a particular contribution to the progress of mathematics Five of the prizewinners were independently chosen by the 4ECM Scientific Committee as plenary or invited speakers The other five prizewinners gave their lectures in parallel sessions Most of these contributions are now collected in this volume providing a permanent record of so much that is best in mathematics today *Spin Glasses* Erwin Bolthausen,Anton Bovier,2007-01-11 This book serves as a concise introduction to the state of the art of spin glass theory The collection of review papers are written by leading experts in the field and cover the topic from a wide variety of angles The book will be useful to both graduate students and young researchers as well as to anyone curious to know what is going on in this exciting area of mathematical physics **Spin Glasses: Statics and Dynamics** Anne Boutet de Monvel,Anton Bovier,2009-12-15 Over the last decade spin glass theory has turned from a fascinating part of theoretical physics to a flourishing and rapidly growing subject of probability theory as well These

developments have been triggered to a large part by the mathematical understanding gained on the fascinating and previously mysterious Parisi solution of the Sherrington Kirkpatrick mean field model of spin glasses due to the work of Guerra Talagrand and others At the same time new aspects and applications of the methods developed there have come up The present volume collects a number of reviews as well as shorter articles by lecturers at a summer school on spin glasses that was held in July 2007 in Paris These articles range from pedagogical introductions to state of the art papers covering the latest developments In their whole they give a nice overview on the current state of the field from the mathematical side The review by Bovier and Kurkova gives a concise introduction to mean field models starting with the Curie Weiss model and moving over to the Random Energy models up to the Parisi solution of the Sherrington Kirkpatrick model Ben Arous and Kuptsov present a more recent view on disordered systems through the so called local energy statistics They emphasize that there are many ways to look at Hamiltonians of disordered systems that make appear the Random Energy model or independent random variables as a universal mechanism for describing certain rare events An important tool in the analysis of spin glasses are correlation identities

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