

Computer Studies Of Phase Transitions And Critical Phenomena

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For more than 50 years, mathematicians have been searching for a rigorous way to prove that an unusually strong symmetry is universal across physical systems at the mysterious juncture where they're ...

Mathematicians Prove Symmetry of Phase Transitions

Pure quantum systems can undergo phase transitions analogous to the classical phase transition between the liquid and gaseous states of water. At the quantum level, however, the particle spins in ...

Quantum phase transition discovered in a quasi-2D system consisting purely of spins

Believe it or not, steel has something in common with bacterial appendages: they can both undergo a special type of physical transformation that remains puzzling. Now, researchers from Japan and China ...

Phase transitions lead to new advanced materials

The study marks a major step toward creating a system for studying quantum phase transitions. In 1934, physicist Eugene Wigner made a theoretical prediction based on quantum mechanics that for 87 ...

Quantum Melting of Wigner Crystals: Creating a System for Studying Quantum Phase Transitions

For the first time, physicists have experimentally observed a first-order phase transition occur in a quantum system – verifying years of theoretical predictions. Phase transitions are something ...

For the First Time Scientists Have Observed a Quantum Phase Transition

Researchers experimentally confirmed three previously unknown phase transition phenomena in soft colloidal crystals. Knowledge of such phenomena will be useful for imparting new properties to ...

Want new advanced materials? There's a phase transition for that

Tracing the importance of the key decisions made during these transition periods, Sabina Henneberg demonstrates the importance of these decisions taken during the short phase between authoritarian ...

Managing Transition

Businesses across the country are adding job positions for new hires faster than the roles can be filled, but the wage rate depends on location. A recent study ...

El Paso new hires earn below average wages, study reports

"This is the first of four streamlined Phase 1/2 studies we plan to open over the coming months ... CDK2 drives cell cycle transitions and CDK9 regulates transcription of genes through phosphorylation ...

Cyclacel Announces Dosing of First Patient in Phase 1/2 Study of Oral Fadraciclub in Patients With Advanced Solid Tumors and Aggressive Lymphomas

Asian Development Bank has shortlisted 7 high calibre teams to conduct feasibility studies on Energy Transition Mechanism – a funding vehicle to phase out coal-fired and scale up renewables in ...

ADB shortlists SEA clean energy transition

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ADB shortlists Southeast Asia energy transition

Howard Levy, M.B.B.Ch, Ph.D., M.M.M. transitions to senior clinical advisor SOUTH SAN FRANCISCO, Calif., July 14, 2021 (GLOBE NEWSWIRE) -- Catalyst Biosciences, Inc. (NASDAQ: CBIO) today announced it ...

Catalyst Biosciences Announces Key Leadership Changes in its Ongoing Transition to an Integrated Protease Medicines Company

Prime Minister Muhyiddin Yassin today said that several more states showing good progress in the fight against Covid-19 could soon join the five which have transitioned to Phase Two of the National ...

More states could move to Phase 2 of recovery plan, says PM

PETALING JAYA: The Government may need to study what type of assistance and packages that are needed to be rolled out when Malaysia transitions into phase two of the National Recovery Plan (NRP).

Govt to study financial aid package for phase 2 of NRP

In a study recently published in Nature Communications ... physical details that underpin crystalline solid-to-solid phase transitions in soft materials, and possibly how researchers can more ...

Want new advanced materials? There's a phase transition for that

(Nanowerk News) Believe it or not, steel has something in common with bacterial appendages: they can both undergo a special type of physical transformation that remains puzzling. Now, researchers from ...

This book is based on research carried out by the author in close collaboration with a number of colleagues. In particular, I wish to thank Per Bak, A. John Berlinsky, Hans C. Fogedby, Barry Frank, S. 1. Knak Jensen, David Mukamel, David Pink, and Martin Zuckermann for fruitful and extremely stimulating cooperation. It is a pleasure for me to note that active interaction with most of these colleagues is still continuing. The work has been performed at several different institutions, notably the Department of Chemistry, Aarhus University, Denmark, and the Department of Physics, University of British Columbia, Canada. I wish to thank the Department of Chemistry at Aarhus University for providing me with splendid research facilities over the years. From May 1980 to August 1981, I visited the Department of Physics at the University of British Columbia and I would like to express my sincere gratitude to members of the department for providing me with excellent working conditions. My special thanks are due to Professor Myer Bloom who introduced me to the field of phase transitions in biological membranes and in whose biomembrane group I found an extremely stimulating scientific atmosphere happily married with a most agreeable social climate. During the last two years when a major part of this work was carried out, I was supported by AIS De Danske Spritfabrikker through their Jubilreumslegat of 1981. Their support is gratefully acknowledged.

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Volume 71 of Reviews in Mineralogy and Geochemistry represents an extensive review of the material presented by the invited speakers at a short course on Theoretical and Computational Methods in Mineral Physics held prior (December 10-12, 2009) to the Annual fall meeting of the American Geophysical Union in San Francisco, California. The meeting was held at the Doubletree Hotel & Executive Meeting Center in Berkeley, California. Contents: Density functional theory of electronic structure: a short course for mineralogists and geophysicists The Minnesota density functionals and their applications to problems in mineralogy and geochemistry Density-functional perturbation theory for quasi-harmonic calculations Thermodynamic properties and phase relations in mantle minerals investigated by first principles quasiharmonic theory First principles quasiharmonic thermoelasticity of mantle minerals An overview of quantum Monte Carlo methods Quantum Monte Carlo studies of transition metal oxides Accurate and efficient calculations on strongly correlated minerals with the LDA+U method: review and perspectives Spin-state crossover of iron in lower-mantle minerals: results of DFT+U investigations

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Simulating diffusion Modeling dislocations and plasticity of deep earth materials Theoretical methods for calculating the lattice thermal conductivity of minerals Evolutionary crystal structure prediction as a method for the discovery of minerals and materials Multi-Mbar phase transitions in minerals Computer simulations on phase transitions in ice Iron at Earth's core conditions from first principles calculations First-principles molecular dynamics simulations of silicate melts: structural and dynamical properties Lattice dynamics from force-fields as a technique for mineral physics An efficient cluster expansion method for binary solid solutions: application to the halite-silvite, NaCl-KCl, system Large scale simulations Thermodynamics of the Earth's mantle

Computer science and physics have been closely linked since the birth of modern computing. In recent years, an interdisciplinary area has blossomed at the junction of these fields, connecting insights from statistical physics with basic computational challenges. Researchers have successfully applied techniques from the study of phase transitions to analyze NP-complete problems such as satisfiability and graph coloring. This is leading to a new understanding of the structure of these problems, and of how algorithms perform on them. Computational Complexity and Statistical Physics will serve as a standard reference and pedagogical aid to statistical physics methods in computer science, with a particular focus on phase transitions in combinatorial problems. Addressed to a broad range of readers, the book includes substantial background material along with current research by leading computer scientists, mathematicians, and physicists. It will prepare students and researchers from all of these fields to contribute to this exciting area.

Phase transitions typically occur in combinatorial computational problems and have important consequences, especially with the current spread of statistical relational learning as well as sequence learning methodologies. In Phase Transitions in Machine Learning the authors begin by describing in detail this phenomenon, and the extensive experimental investigation that supports its presence. They then turn their attention to the possible implications and explore appropriate methods for tackling them. Weaving together fundamental aspects of computer science, statistical physics and machine learning, the book provides sufficient mathematics and physics background to make the subject intelligible to researchers in AI and other computer science communities. Open research issues are also discussed, suggesting promising directions for future research.

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