

Spinning Dumbbell Model

John M. Brown, Alan Carrington

Spin Ice Masafumi Udagawa, Ludovic Jaubert, 2021-10-19 This book deals with a new class of magnetic materials, spin ice. Spin ice has become the canonical example of modern frustrated magnetism where competing interactions between spins set the rules for an emergent magnetostatic gauge field theory. Excitations take the form of magnetic monopoles or can condense via a Higgs mechanism. Beyond classical spin ice, the book describes the new physics emerging when quantum coherence (spin liquids, photon-like excitations) and itinerant electrons (anomalous Hall effect) are included in artificial systems. This first book dedicated to spin ice is a review of the current understanding of the field, both on the theoretical and experimental levels, written by leading experts. The book is written in a linear way with very few prerequisites. It also contains textbook-like descriptions of theoretical methods to help advanced students and researchers to enter the field.

Third European Rheology Conference and Golden Jubilee Meeting of the British Society of Rheology D.R. Oliver, 2012-12-06

Magnetic Monopole Noise Ritika Dusad, 2020-10-29 This thesis presents the first ever measurement of the noise emitted by magnetic monopoles and the development of an exquisitely sensitive magnetic-field-noise spectrometer based on a superconducting quantum interference device (SQUID) that enabled it. Magnetic monopoles are highly elusive elementary particles exhibiting quantized magnetic charge. The prospects for studying them brightened recently with the theoretical discovery that the thermally excited states in certain classes of magnetic insulators exhibit all the characteristics of magnetic monopoles. Furthermore, in 2018, it was predicted that the random motion of magnetic monopoles inside would generate a very specific kind of magnetization noise. In this thesis, the author describes a new experimental technique, so-called spin noise spectroscopy, and the subsequent discovery of virtually all of the predicted features of the magnetic noise expected from a dense fluid of magnetic monopoles in crystals of $\text{Dy}_2\text{Ti}_2\text{O}_7$. Remarkably, because this magnetic monopole noise occurs in the frequency range below 20kHz, when amplified by the SQUID it is actually audible to humans.

Open Questions in Quantum Physics G. Tarozzi, Alwyn van der Merwe, 2012-12-06 Due to its extraordinary predictive power and the great generality of its mathematical structure, quantum theory is able, at least in principle, to describe all the microscopic and macroscopic properties of the physical world, from the subatomic to the cosmological level. Nevertheless, ever since the Copenhagen and Gottingen schools in 1927 gave it the definitive formulation, now commonly known as the orthodox

interpretation, the theory has suffered from very serious logical and epistemological problems. These shortcomings were immediately pointed out by some of the principal founders themselves of quantum theory, to wit, Planck, Einstein, Ehrenfest, Schrodinger, and de Broglie, and by the philosopher Karl Popper, who assumed a position of radical criticism with regard to the standard formulation of the theory. The aim of the participants in the workshop on Open Questions in Quantum Physics, which was held in Bari (Italy), in the Department of Physics of the University, during May 1983 and whose Proceedings are collected in the present volume, accordingly was to discuss the formal, the physical and the epistemological difficulties of quantum theory in the light of recent crucial developments and to propose some possible resolutions of three basic conceptual dilemmas, which are posed respectively ~: (a) the physical developments of the Einstein-Podolsky-Rosen argument and Bell's theorem, i. e.

Rotational Spectroscopy of Diatomic Molecules John M. Brown, Alan Carrington, 2003-04-10 The definitive text on the rotational spectroscopy of diatomic molecules.

Modern Spacecraft Dynamics and Control Marshall H. Kaplan, 2020-11-18 Topics include orbital and attitude maneuvers, orbit establishment and orbit transfer, plane rotation, interplanetary transfer and hyperbolic passage, lunar transfer, reorientation with constant momentum, attitude determination, more. Answers to selected exercises. 1976 edition.

Advances in Chemical Physics, Volume 35 Ilya Prigogine, Stuart A. Rice, 2009-09-08 The Advances in Chemical Physics series provides the chemical physics and physical chemistry fields with a forum for critical, authoritative evaluations of advances in every area of the discipline. Filled with cutting-edge research reported in a cohesive manner not found elsewhere in the literature, each volume of the Advances in Chemical Physics series serves as the perfect supplement to any advanced graduate class devoted to the study of chemical physics.

Fundamental Physics At The Vigier Centenary: "L'heretique De La Physique" Lives On Richard L Amoroso, Louis H Kauffman, Peter Rowlands, 2021-08-27 There has not been a scientific revolution for about 100 years. One seems imminent, as QED has recently been violated at the Sigma-6 level. Kuhn, in 'The Structure of Scientific Revolutions', used Wittgenstein's famous duck-rabbit optical illusion to demonstrate how bias in interpretation causes scientists to see the same information in radically different manners, which is likely to have delayed the pending paradigm shift. Jean-Pierre Vigier, continually labeled l'hérétique de la physique and l'eternel resistant in French media, remains a pillar of modern mathematical physics. 'Heretical' works of Vigier related to extended electromagnetic theory

incorporating photon mass and a longitudinal B(3) EM field, gravity, quantum theory, large-scale additional dimensions, the Dirac polarized vacuum and many more related issues are deemed by his followers to be essential to the evolution of physics. The phrase 'Lives On' was chosen in the title of this volume to claim ignored portions of his work are relevant to implementing the Paradigm Shift to an Einsteinian Unified Field Theory. Specifically, chapters about the Dirac Hypertube, Tight-Bound States and Spacetime programming provide required insights into crossing the dimensional barrier and 'proving' parts of M-Theoretic dimensionality. As happens periodically in the history of science, we live in a climate where coloring outside-the-box can have severe myopic consequences such as difficulties in passing PhD exams, challenges in grant approval or problems in receiving tenure. Since there is no conflict with Gauge Theory, once realized, many chapters in this important volume will aid in facilitating progress in physics beyond the Standard Model.

Topological Aspects of Condensed Matter Physics Claudio Chamon, Mark O. Goerbig, Roderich Moessner, Leticia F. Cugliandolo, 2017-02-16 This book contains lecture notes by world experts on one of the most rapidly growing fields of research in physics. Topological quantum phenomena are being uncovered at unprecedented rates in novel material systems. The consequences are far reaching, from the possibility of carrying currents and performing computations without dissipation of energy, to the possibility of realizing platforms for topological quantum computation. The pedagogical lectures contained in this book are an excellent introduction to this blooming field. The lecture notes are intended for graduate students or advanced undergraduate students in physics and mathematics who want to immerse in this exciting XXI century physics topic. This Les Houches Summer School presents an overview of this field, along with a sense of its origins and its placement on the map of fundamental physics advancements. The School comprised a set of basic lectures (part 1) aimed at a pedagogical introduction of the fundamental concepts, which was accompanied by more advanced lectures (part 2) covering individual topics at the forefront of today's research in condensed-matter physics.

Simple Models of Magnetism Ralph Skomski, 2008-01-17 This volume presents introductory appendices and panels on quantum mechanics, statistical mechanics, and other topics.

Quantum Physics Arno Bohm, Piotr Kielanowski, G. Bruce Mainland, 2019-11-06 This is an introductory graduate course on quantum mechanics, which is presented in its general form by stressing the operator approach. Representations of the algebra of the harmonic oscillator and of the algebra of angular momentum are determined in chapters 1 and 2 respectively. The algebra of angular momentum is enlarged by adding the position operator so that the algebra can be used to describe

rigid and non-rigid rotating molecules. The combination of quantum physical systems using direct-product spaces is discussed in chapter 3. The theory is used to describe a vibrating rotator, and the theoretical predictions are then compared with data for a vibrating and rotating diatomic molecule. The formalism of first- and second-order non-degenerate perturbation theory and first-order degenerate perturbation theory are derived in chapter 4. Time development is described in chapter 5 using either the Schrodinger equation of motion or the Heisenberg's one. An elementary mathematical tutorial forms a useful appendix for the readers who don't have prior knowledge of the general mathematical structure of quantum mechanics.

Electron Spin Echo Envelope Modulation (ESEEM) Spectroscopy Sergei A. Dikanov, Yuri Tsvetkov, 1992-07-27 The first volume devoted entirely to Electron Spin Echo Envelope Modulation (ESEEM) Spectroscopy This valuable book provides an introduction and broad survey of topics in ESEEM spectroscopy, including the theory, instrumentation, peculiarities of ESE experiments, and analysis of experimental data with particular emphasis on orientationally disordered systems. Applications of ESEEM spectroscopy to study chemically and biologically important paramagnetic centers in single crystals, amorphous solids, and powders are discussed as well. Electron Spin Echo Envelope Modulation (ESEEM) Spectroscopy will benefit specialists in magnetic resonance spectroscopy, physicists, chemists, and biologists who use magnetic resonance in their research.

Applied Mechanics Reviews , 1974

Elementary Mechanics Using Matlab Anders Malthe-Sørenssen, 2015-06-01 This book – specifically developed as a novel textbook on elementary classical mechanics – shows how analytical and numerical methods can be seamlessly integrated to solve physics problems. This approach allows students to solve more advanced and applied problems at an earlier stage and equips them to deal with real-world examples well beyond the typical special cases treated in standard textbooks. Another advantage of this approach is that students are brought closer to the way physics is actually discovered and applied, as they are introduced right from the start to a more exploratory way of understanding phenomena and of developing their physical concepts. While not a requirement, it is advantageous for the reader to have some prior knowledge of scientific programming with a scripting-type language. This edition of the book uses Matlab, and a chapter devoted to the basics of scientific programming with Matlab is included. A parallel edition using Python instead of Matlab is also available. Last but not least, each chapter is accompanied by an extensive set of course-tested exercises and solutions.

Division,1962

Optimization of Manned Orbital Satellite Vehicle Design with Respect to Artificial Gravity Benjamin

J. Loret,1961 A design envelope is established as the result of a human factors analysis of the artificial gravity environment peculiar to rotating space vehicles. The envelope is prescribed by: an upper limit on vehicle angular velocity of 0.4 radian/second to minimize the occurrence of "canal sickness"; a basic upper limit on artificial gravity of 1 g; and a basic lower limit on artificial gravity of 0.2 g as the lowest value of g at which man can walk unaided. Both g-limits are modified to compensate for Coriolis forces which cause variation in g-level for tangential walking inside the rotating vehicle. An upper limit on vehicle radius of 180 feet is established on the basis of engineering practicality. The optimum vehicle configuration is established as a Modified Axially Expanded Dumbbell, characterized by a single, cylindrical, living-working compartment oriented parallel to the spin axis, counterbalanced by other vehicle components. The configuration is illustrated in the conceptual Pseudo-Geogravitational Vehicle, which has a radius of 180 feet and an operational angular velocity of 0.4 radian/second to produce 0.9 g in the living-working compartment. (Author)

Effects of a Pointed Nose on Spin Characteristics of a Fighter Airplane Model Including Correlation

with Theoretical Calculations Joseph R. Chambers,1970

Equilibrium and Non-Equilibrium Statistical Mechanics Carolyne M Van Vliet,2008-06-11

This book encompasses our current understanding of the ensemble approach to many-body physics, phase transitions and other thermal phenomena, as well as the quantum foundations of linear response theory, kinetic equations and stochastic processes. It is destined to be a standard text for graduate students, but it will also serve the specialist-researcher in this fascinating field; some more elementary topics have been included in order to make the book self-contained. The historical methods of J Willard Gibbs and Ludwig Boltzmann, applied to the quantum description rather than phase space, are featured. The tools for computations in the microcanonical, canonical and grand-canonical ensembles are carefully developed and then applied to a variety of classical and standard quantum situations. After the language of second quantization has been introduced, strongly interacting systems, such as quantum liquids, superfluids and superconductivity, are treated in detail. For the connoisseur, there is a section on diagrammatic methods and applications. In the second part dealing with non-equilibrium processes, the emphasis is on the quantum foundations of Markovian behaviour and irreversibility via the Pauli-Van Hove master equation. Justifiable linear response expressions and the quantum-

Boltzmann approach are discussed and applied to various condensed matter problems. From this basis the Onsager–Casimir relations are derived, together with the mesoscopic master equation, the Langevin equation and the Fokker–Planck truncation procedure. Brownian motion and modern stochastic problems such as fluctuations in optical signals and radiation fields briefly make the round.

The Story of Spin Shin'ichirō Tomonaga, 1997 All atomic particles have a particular spin. Simple as spin may sound, the quantum mechanical reality underlying it is complex and still poorly understood. Because of the wide range of physics needed for its understanding, spin is not described in sufficient depth by any standard textbook. Yet this mysterious quality and the statistics associated with it have vast practical importance to topics as wide-ranging as the stability of atoms and stars and magnetic resonance imaging. Originally published in 1974, Sin-itiro Tomonaga's *The Story of Spin* remains the most complete and accessible treatment of the subject, and is now available for the first time in English translation. Tomonaga tells the tale of the pioneers of physics and their difficult journey toward an understanding of the nature of spin and its relationship to statistics.

Frontiers in Physics – 2019 Editor's Choice Alex Hansen, Thomas Beyer, Ewald Moser, Laura Elisa Marcucci, Ralf Metzler, Christian F. Klingenberg, James Sauls, José W. F. Valle, Jan De Boer, Dumitru Baleanu, Lorenzo Pavesi, Bretislav Friedrich, Christine Charles, Matjaž Perc, Jasper Van Der Gucht, 2020-05-19 *Frontiers in Physics – FPHY* – is now in its eighth year. Up to last year, the journal received a slowly increasing trickle of manuscripts, and then during the summer... Boom! The number of manuscripts we receive started increasing exponentially. This is of course a signal to us who are associated with the journal that we are on the right track to build a first-rate journal spanning the entire field of physics. And it is not the only signal. We also see it in other indicators such as the number of views and downloads, Impact Factor and the Cite Score. Should we be surprised at this increase? If I were to describe FPHY in one word, it would be “innovation”. Attaching the names of the reviewers that have endorsed publication permanently to the published paper is certainly in this class. It ensures that the reviewers are accountable; furthermore, the level of transparency this implies ensures that any conflict of interest is detected at the very beginning of the process. The review process itself is innovative. After an initial review that proceeds traditionally, the reviewers and authors enter a back-and-forth dialog that irons out any misunderstanding. The reviewers retain their anonymity throughout the process. The entire review process and any question concerning editorial decisions is fully in the hands of active scientists. The *Frontiers* staff is not allowed to make any such decision. They oversee the process and make sure that the manuscript and the process leading to publication or rejection

upholds the standard. FPHY is of course a gold open access journal. This is the only scientific publication model that is compatible with the information revolution. A journal's prestige is traditionally associated with how difficult it is to publish there. Exclusivity as criterion for desirability, is a mechanism we know very well from the consumer market. However, is this criterion appropriate for scientific publishing? It is almost by definition not possible to predict the importance of a new idea – otherwise it would not have been new. So, why should journals make decisions on publishing based on predicting the possible importance of a given work. This can only be properly assessed after publication. Frontiers has removed “importance” from the list of criteria for publication. That the work is new, is another matter: the work must be new and scientifically correct. It would seem that removing the criterion of “importance” would be a risky one, but it turns out not to be. The Specialty Chief Editors who lead the 18 sections that constitute FPHY, have made this selection of papers published in FPHY in 2019. We have chosen the papers that we have found most striking. Even though this is far from a random selection, they do give a good idea of what PFHY is about. Enjoy! We certainly did while making this selection. Professor Alex Hansen (Field Chief Editor)

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