

FRACTIONAL STATISTICS

AND QUANTUM THEORY

2ND EDITION

■ Avinash Khare

Fractional Statistics And Quantum Theory

Oscar J P Eboli, Victor Oliveira Rivelles



Fractional Statistics And Quantum Theory:

Fractional Statistics And Quantum Theory (2nd Edition) Avinash Khare, 2005-02-02 This book explains the subtleties of quantum statistical mechanics in lower dimensions and their possible ramifications in quantum theory. The discussion is at a pedagogical level and is addressed to both graduate students and advanced researchers with a reasonable background in quantum and statistical mechanics. Topics in the first part of the book include the flux tube model of anyons, the braid group, and a detailed discussion about the various aspects of quantum and statistical mechanics of a noninteracting anyon gas. The second part of the book includes a detailed discussion about fractional statistics from the point of view of Chern Simons theories. Topics covered here include Chern Simons field theories, charged vortices, anyon superconductivity, and the fractional quantum Hall effect. Since the publication of the first edition of the book, an exciting possibility has emerged: that of quantum computing using anyons. A section has therefore been included on this topic in the second edition. In addition, new sections have been added about scattering of anyons with hard disk repulsion, as well as fractional exclusion statistics and negative probabilities. *Fractional Statistics and Quantum Theory* Avinash Khare, 1997

Anyons Alberto Lerda, 1992-12-14 Particles with fractional statistics interpolating between bosons and fermions have attracted considerable interest from mathematical physicists. In recent years, it has emerged that these so-called anyons have rather unexpected applications, such as the fractional Hall effect, anyonic excitations in films of liquid helium, and high-temperature superconductivity. Furthermore, they are discussed also in the context of conformal field theories. This book is a systematic and pedagogical introduction that considers the subject of anyons from many different points of view. In particular, the author presents the relation of anyons to braid groups and Chern Simons field theory and devotes three chapters to physical applications. The book, while being of interest to researchers, primarily addresses advanced students of mathematics and physics.

Fractional Statistics and Anyon Superconductivity Frank Wilczek, 1990 Part I: Concepts in fractional statistics; part II: States of anyon matter; part III: Reprinted papers. *Quantum Mechanics of the Fractional Statistics Gas: Random Phases Approximation* Q. Dai, J. L. Levy, A. L. Fetter, 1992 *Quantum Mechanics of the Fractional-statistics Gas* Charles Bernard Hanna, 1990 Proceedings of the Gibbs Symposium D. G. Caldi, George D. Mostow, 1990-11-07 This volume, a joint publication with the American Institute of Physics, contains the proceedings of a symposium honoring the memory of Josiah Willard Gibbs, one of the giants of theoretical physics. Three articles provide perspectives on Gibbs, the man and on the place his work occupies in the history of science. There are also contributions from leading scientists on statistical mechanics, thermodynamics, geophysics, number theory, general relativity, and economics.

Path Integrals in Quantum Mechanics, Statistics, Polymer Physics, and Financial Markets Hagen Kleinert, 2006 This is the fourth expanded edition of the comprehensive textbook published in 1990 on the theory and applications of path integrals. It is the first book to explicitly solve path integrals of a wide variety of nontrivial quantum mechanical systems, in particular the hydrogen atom.

The solutions have become possible by two major advances. The first is a new euclidean path integral formula which increases the restricted range of applicability of Feynman's famous formula to include singular attractive $1/r$ and $1/r^2$ potentials. The second is a simple quantum equivalence principle governing the transformation of euclidean path integrals to spaces with curvature and torsion which leads to time sliced path integrals that are manifestly invariant under coordinate transformations. In addition to the time sliced definition the author gives a perturbative definition of path integrals which makes them invariant under coordinate transformations. A consistent implementation of this property leads to an extension of the theory of generalized functions by defining uniquely integrals over products of distributions. The powerful Feynman-Kleinert variational approach is explained and developed systematically into a variational perturbation theory which in contrast to ordinary perturbation theory produces convergent expansions. The convergence is uniform from weak to strong couplings opening a way to precise approximate evaluations of analytically unsolvable path integrals. Tunneling processes are treated in detail. The results are used to determine the lifetime of supercurrents, the stability of metastable thermodynamic phases and the large order behavior of perturbation expansions. A new variational treatment extends the range of validity of previous tunneling theories from large to small barriers. A corresponding extension of large order perturbation theory also applies now to small orders. Special attention is devoted to path integrals with topological restrictions. These are relevant to the understanding of the statistical properties of elementary particles and the entanglement phenomena in polymer physics and biophysics. The Chern-Simons theory of particles with fractional statistics anyons is introduced and applied to explain the fractional quantum Hall effect. The relevance of path integrals to financial markets is discussed and improvements of the famous Black-Scholes formula for option prices are given which account for the fact that large market fluctuations occur much more frequently than in the commonly used Gaussian distributions. The author's other book on Critical Properties of 4 Theories gives a thorough introduction to the field of critical phenomena and develops new powerful resummation techniques for the extraction of physical results from the divergent perturbation expansions. *The Multi-anyon Quantum Mechanics and Fractional Statistics* Chihong Chou, Massachusetts Institute of Technology, Center for Theoretical Physics, 1990

Quantum Hall Systems Lucjan Jacak, 2003. This text presents the wide range of topics in two dimensional physics of quantum Hall systems especially fractional quantum Hall states. It covers the fundamental problems of two dimensional quantum statistics in terms of topology and the Chern-Simons theory. *Aspects topologiques de la physique en basse dimension. Topological aspects of low dimensional systems* A. Comtet, T. Jolicoeur, S. Ouvry, F. David, 2000-01-20 Session LXIX 7 31 July 1998. **Geometric Phases in Physics** Frank Wilczek, Alfred Shapere, 1989. During the last few years considerable interest has been focused on the phase that waves accumulate when the equations governing the waves vary slowly. The recent flurry of activity was set off by a paper by Michael Berry where it was found that the adiabatic evolution of energy eigenfunctions in quantum mechanics contains a phase of geometric origin now known as Berry's phase in addition to the

usual dynamical phase derived from Schrödinger's equation. This observation though basically elementary seems to be quite profound. Phases with similar mathematical origins have been identified and found to be important in a startling variety of physical contexts ranging from nuclear magnetic resonance and low Reynolds number hydrodynamics to quantum field theory. This volume is a collection of original papers and reprints with commentary on the subject. New Research in Quantum Physics Volodymyr Krasnoholovets, Frank H. Columbus, 2004. This outstanding new volume brings together state of the art developments in quantum physics. The forefront of contemporary advances in physics lies in the submicroscopic regime whether it be in atomic nuclear condensed matter plasma or particle physics or in quantum optics or even in the study of stellar structure. All are based upon quantum theory i.e. quantum mechanics and quantum field theory and relativity which together form the theoretical foundations of modern physics. A range of possible values are in quantum theory constrained to have discontinuous or discrete values. The intrinsically deterministic character of classical physics is replaced in quantum theory by intrinsic uncertainty. According to quantum theory electromagnetic radiation does not always consist of continuous waves instead it must be viewed under some circumstances as a collection of particle like photons the energy and momentum of each being directly proportional to its frequency or inversely proportional to its wavelength the photons still possessing some wavelike characteristics. Classical Concepts Millard Baublitz JR Boston University Irreversible Time Flow and Hilbert Space Structure Pavel Kundrat Milos V Lokajicek Institute of Physics AVCR Czech Republic Time as a Dynamical Variable Z Y Wang University of Electronic Science and Technology of China and B Chen University of Central Florida Gamow Vectors and Time Asymmetric Quantum Mechanics M Gadella Universidad de Valladolid Spain and S Wickramasekara St Olaf College Nonperturbative Methods in Quantum Mechanics The Gaussian Functional Approach J Casahorran Universidad de Zaragoza Spain Wave Packet Dynamics and Tunneling in External Time Dependent Fields A Semiclassical Real Time Approach Markus Saltzer and Joachim Ankerhold Albert Ludwigs Universitaet Freiburg Germany Finite Size Scaling in Quantum Mechanics Sabre Kais Purdue University and Pablo Serra Universidad Nacional de Cordoba Argentina Nonlocality in Time of Interaction in Theories with Disparate Energy Scales Renat Kh Gainutdinov and Aigul A Mutygullina Kazan State University Russia Classical and Quantum Mechanics of A **Symmetry And Structural Properties Of Condensed Matter, Proceedings Of The 3rd International School On Theoretical Physics** Tadeusz Lulek, Wojciech Florek, Stanislaw Walcerz, 1995-03-29 This volume reviews some selected problems in solid state physics with an emphasis on adequate mathematical tools. The three main subjects are magnetic structures and neutron scattering Berry phases and energy bands in solids symmetry analyticity Hofstadter butterfly van Hove singularities and quasicrystals finite systems and group action on sets unitary group approach Schur functions. Software presentations are included as a separate part. *High Energy Physics Index*, 1993 Particles And Fields - Proceedings Of The VII Ja Swieca Summer School Oscar J P Eboli, Victor Oliveira Rivelles, 1994-05-06 **Van Nostrand's Scientific Encyclopedia** Douglas M. Considine, Glenn D.

Considine,2013-12-11 Advancements in science and engineering have occurred at a surprisingly rapid pace since the release of the seventh edition of this encyclopedia Large portions of the reference have required comprehensive rewriting and new illustrations Scores of new topics have been included to create this thoroughly updated eighth edition The appearance of this new edition in 1994 marks the continuation of a tradition commenced well over a half century ago in 1938 Van Nostrand s Scientific Encyclopedia First Edition was published and welcomed by educators worldwide at a time when what we know today as modern science was just getting underway The early encyclopedia was well received by students and educators alike during a critical time span when science became established as a major factor in shaping the progress and economy of individual nations and at the global level A vital need existed for a permanent science reference that could be updated periodically and made conveniently available to audiences that numbered in the millions The pioneering VNSE met these criteria and continues today as a reliable technical information source for making private and public decisions that present a backdrop of technical alternatives

[The Quantum Hall Effect](#) Daijiro Yoshioka,2014-01-15 **International Journal of Modern Physics** ,1893 [Journal of Physics A](#) ,2002 Focuses on fundamental mathematical and computational methods underpinning physics Relevant to statistical physics chaotic and complex systems classical and quantum mechanics classical and quantum integrable systems and classical and quantum field theory

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