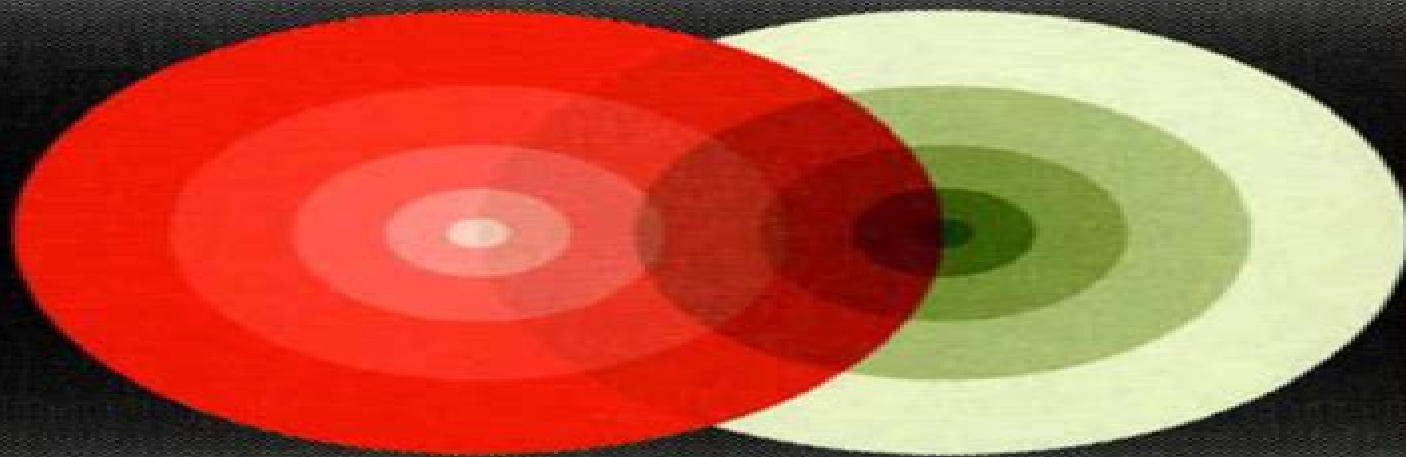


Irreversibilities in Quantum Mechanics

by
Benjamin Fain

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Fundamental Theories of Physics

Irreversibilities In Quantum Mechanics Fundamental Theories Of Physics

J. Keller



Irreversibilities In Quantum Mechanics Fundamental Theories Of Physics:

Irreversibilities in Quantum Mechanics B. Fain, 2000-09-30 This book presents a unified theoretical and conceptual framework for the description of various irreversible phenomena in quantum mechanics The general theory of irreversible processes is applied to specific physical models and situations such as energy and electron transfer processes tunnelling in condensed media superradiance etc Special attention is given to memory effects in relaxation processes and dissipationless states in dissipative systems A separate chapter is devoted to the problem of irreversibility in quantum measurements Audience This book will be of interest to postgraduate students and specialists in quantum mechanics statistical physics and chemical physics The work may serve as a complementary text for quantum mechanics courses **Quantum Mechanics:**

Theory and Applications Ajoy Ghatak, S. Lokanathan, 2004-02-29 An understanding of quantum mechanics is vital to all students of physics chemistry and electrical engineering but requires a lot of mathematical concepts the details of which are given with great clarity in this book Various concepts have been derived from first principles so it can also be used for self study The chapters on the JWKB approximation time independent perturbation theory and effects of magnetic field stand out for their clarity and easy to understand mathematics Two complete chapters on the linear harmonic oscillator provide a very detailed discussion of one of the most fundamental problems in quantum mechanics Operator algebra is used to show the ease with which one can calculate the harmonic oscillator wave functions and study the evolution of the coherent state Similarly three chapters on angular momentum give a detailed account of this important problem Perhaps the most attractive feature of the book is the excellent balance between theory and applications and the large number of applications in such diverse areas as astrophysics nuclear physics atomic and molecular spectroscopy solid state physics and quantum well structures **The Structure of Physics** Carl F. von Weizsäcker, 2007-01-15 Carl Friedrich von Weizsäcker's Aufbau der Physik first published in 1985 was intended as an overview of his lifelong concern an understanding of the unity of physics That is the idea of a quantum theory of binary alternatives the so called ur theory a unified quantum theoretical framework in which spinorial symmetry groups are considered to give rise to the structure of space and time The book saw numerous reprints but it was published in German only The present edition in English provides a newly arranged and revised version in which some original chapters and sections have been deleted and a new chapter about further insights and results of ur theoretic research of the late 1980 s and 1990 s mainly by the work of Thomas G rntz has been included as well as a general introduction to Weizsäcker's Philosophy of Physics Carl Friedrich von Weizsäcker also enjoys high esteem by a much broader audience for his socio cultural political and religious thoughts and writings In him the intercultural and interdisciplinary dialogue has found one of its most important proponents a great thinker who combines the perspectives of science philosophy religion and politics with a view towards the challenges as well as the responsibilities of our time Original title Aufbau der Physik Carl Friedrich von Weizsäcker Carl Hanser Verlag München Wien 1985 **Symposium On The**

Foundations Of Modern Physics 1993 - Quantum Measurement, Irreversibility And The Physics Of Information P

Busch, Peter Mittelstaedt, Pekka Lahti, 1994-02-08 Symposium on the Foundations of Modern Physics 1993 is the fourth in a series of conferences held in Joensuu Finland in the years 1985 1987 and 1990 and is devoted to offering discussions on foundational problems of quantum mechanics and other fundamental physical theories taking into account new experimental developments The surveying of the progress with respect to fundamental questions of the quantum theory of measurement forms the guiding line of thought of the present Symposium the main themes discussed being the interrelation of quantum measurement and irreversibility the physics of information concerned with questions of information processing and quantum noise quantum interference and mesoscopic quantum effects searching for the micro macro borderline and the quantum classical relationship the need for classical pointer and their realisation *Theory of High Temperature Superconductivity*

S. Fujita, S. Godoy, 2006-04-11 Flux quantization experiments indicate that the carriers Cooper pairs pairons in the supercurrent have charge magnitude $2e$ and that they move independently Josephson interference in a Superconducting Quantum Interference Device SQUID shows that the centers of masses CM of pairons move as bosons with a linear dispersion relation Based on this evidence we develop a theory of superconductivity in conventional and materials from a unified point of view Following Bardeen Cooper and Schrieffer BCS we regard the phonon exchange attraction as the cause of superconductivity For cuprate superconductors however we take account of both optical and acoustic phonon exchange BCS started with a Hamiltonian containing electron and hole kinetic energies and a pairing interaction with the phonon variables eliminated These electrons and holes were introduced formally in terms of a free electron model which we consider unsatisfactory We define electrons and holes in terms of the curvatures of the Fermi surface Electrons 1 and holes 2 are different and so they are assigned with different effective masses Blatt Schafroth and Butler proposed to explain superconductivity in terms of a Bose Einstein Condensation BEC of electron pairs each having mass M and a size The system of free massive bosons having a quadratic dispersion relation and moving in three dimensions 3D undergoes a BEC transition at where is the pair density *Molecular Excitation Dynamics and Relaxation* Leonas Valkunas, Darius Abramavicius, Tomás Mancal, 2013-10-04 This work brings together quantum theory and spectroscopy to convey excitation processes to advanced students and specialists wishing to conduct research and understand the entire field rather than just single aspects Written by experienced authors and recognized authorities in the field this text covers numerous applications and offers examples taken from different disciplines As a result spectroscopists molecular physicists physical chemists and biophysicists will all find this a must have for their research Also suitable as supplementary reading in graduate level courses Ettore Majorana:

Notes on Theoretical Physics Salvatore Esposito, Ettore Majorana Jr., Alwyn van der Merwe, E. Recami, 2013-03-09 HISTORICAL PRELUDE Ettore Majorana's fame solidly rests on testimonies like the following from the evocative pen of Giuseppe Cocconi At the request of Edoardo Amaldi he wrote from CERN July 18 1965 In January 1938 after having just

graduated I was invited essentially by you to come to the Institute of Physics at the University in Rome for six months as a teaching assistant and once I was there I would have the good fortune of joining Fermi Bernardini who had been given a chair at Camerino a few months earlier and Ageno he too a new graduate in the research of the products of disintegration of L mesons at that time called mesotrons or yukons which are produced by cosmic rays It was actually while I was staying with Fermi in the small laboratory on the second floor absorbed in our work with Fermi working with a piece of Wilson's chamber which would help to reveal mesons at the end of their range on a lathe and me constructing a jalopy for the illumination of the chamber using the flash produced by the explosion of an aluminum ribbon short circuited on a battery that Ettore Majorana came in search of Fermi I was introduced to him and we exchanged few words A dark face And that was it

Kinematical Theory of Spinning Particles M. Rivas, 2001-11-30 Classical spin is described in terms of velocities and acceleration so that knowledge of advanced mathematics is not required Written in the three dimensional notation of vector calculus it can be followed by undergraduate physics students although some notions of Lagrangian dynamics and group theory are required It is intended as a general course at a postgraduate level for all purpose physicists This book presents a unified approach to classical and quantum mechanics of spinning particles with symmetry principles as the starting point A classical concept of an elementary particle is presented The variational statements to deal with spinning particles are revisited It is shown that by explicitly constructing different models symmetry principles are sufficient for the description of either classical or quantum mechanical elementary particles Several spin effects are analyzed

Introduction to Soliton Theory: Applications to Mechanics Ligia Munteanu, Stefania Donescu, 2006-07-06 This monograph is planned to provide the application of the soliton theory to solve certain practical problems selected from the fields of solid mechanics fluid mechanics and biomechanics The work is based mainly on the authors research carried out at their home institutes and on some specified significant results existing in the published literature The methodology to study a given evolution equation is to seek the waves of permanent form to test whether it possesses any symmetry properties and whether it is stable and solitonic in nature Students of physics applied mathematics and engineering are usually exposed to various branches of nonlinear mechanics especially to the soliton theory The soliton is regarded as an entity a quasi particle which conserves its character and interacts with the surroundings and other solitons as a particle It is related to a strange phenomenon which consists in the propagation of certain waves without attenuation in dissipative media This phenomenon has been known for about 200 years it was described for example by the Joule Verne's novel *Les histoires de Jean Marie Cabidoulin* d Hetzel but its detailed quantitative description became possible only in the last 30 years due to the exceptional development of computers The discovery of the physical soliton is attributed to John Scott Russell In 1834 Russell was observing a boat being drawn along a narrow channel by a pair of horses

Theory of the Electron J. Keller, 2005-12-19 In the first century after its discovery the electron has come to be a fundamental element in the analysis of physical aspects of nature This book is

devoted to the construction of a deductive theory of the electron starting from first principles and using a simple mathematical tool geometric analysis Its purpose is to present a comprehensive theory of the electron to the point where a connection can be made with the main approaches to the study of the electron in physics The introduction describes the methodology Chapter 2 presents the concept of space time action relativity theory and in chapter 3 the mathematical structures describing action are analyzed Chapters 4 5 and 6 deal with the theory of the electron in a series of aspects where the geometrical analysis is more relevant Finally in chapter 7 the form of geometrical analysis used in the book is presented to elucidate the broad range of topics which are covered and the range of mathematical structures which are implicitly or explicitly included The book is directed to two different audiences of graduate students and research scientists primarily to theoretical physicists in the field of electron physics as well as those in the more general field of quantum mechanics elementary particle physics and general relativity secondly to mathematicians in the field of geometric analysis

The Geometry of Hamilton and Lagrange Spaces R. Miron, Dragos Hrimiuc, Hideo Shimada, Sorin V. Sabau, 2006-04-11 The title of this book is no surprise for people working in the field of Analytical Mechanics However the geometric concepts of Lagrange space and Hamilton space are completely new The geometry of Lagrange spaces introduced and studied in 76 96 was extensively examined in the last two decades by geometers and physicists from Canada Germany Hungary Italy Japan Romania Russia and U S A Many international conferences were devoted to debate this subject proceedings and monographs were published 10 18 112 113 A large area of applicability of this geometry is suggested by the connections to Biology Mechanics and Physics and also by its general setting as a generalization of Finsler and Riemannian geometries The concept of Hamilton space introduced in 105 101 was intensively studied in 63 66 97 and it has been successful as a geometric theory of the Hamiltonian function the fundamental entity in Mechanics and Physics The classical Legendre's duality makes possible a natural connection between Lagrange and Hamilton spaces It reveals new concepts and geometrical objects of Hamilton spaces that are dual to those which are similar in Lagrange spaces Following this duality Cartan spaces introduced and studied in 98 99 are roughly speaking the Legendre duals of certain Finsler spaces 98 66 67 The above arguments make this monograph a continuation of 106 113 emphasizing the Hamilton geometry

Nonperturbative Quantum Field Theory and the Structure of Matter T. Borne, G. Lochak, H. Stumpf, 2001-11-30 This book which presents a new view of quantum field theory may serve as a research monograph and an alternative textbook examining topics which are not usually treated in conventional works The first part contains a new nonperturbative regularization and probability interpretation as well as a new treatment of effective dynamics for quantum fields based on algebraic representation theory in functional spaces In the second part these methods are applied to selected topics in high energy physics In a generalization of de Broglie's fusion theory gauge bosons and fermions are considered as composites and the basic dynamics of the electro weak sector of the standard model is derived as an effective theory from a regularized spinor fields model Linear gravity is discussed in the same way Audience This volume

will appeal to researchers concerned with the foundation of the theory of matter and forces including gravitation It will also be of interest to those working with quantum field theoretic methods in various disciplines such as particle physics nuclear physics condensed matter physics and relativity

Isodual Theory of Antimatter Ruggero Maria Santilli, 2006-02-28 The scope of this monograph is to show that our classical quantum and cosmological knowledge of antimatter is at its beginning with much yet to be discovered and that a commitment to antimatter by experimentalists will be invaluable to antimatter science This is also the first book presenting the isodual theory of antimatter It is aimed at scientists and researchers in theoretical physics

Challenges to The Second Law of Thermodynamics Vladislav Capek, Daniel P. Sheehan, 2006-03-30 The advance of scientific thought in ways resembles biological and geologic transformation long periods of gradual change punctuated by episodes of radical upheaval Twentieth century physics witnessed at least three major shifts relativity quantum mechanics and chaos theory as well many lesser ones Now so early in the 21st another shift appears imminent this one involving the second law of thermodynamics Over the last 20 years the absolute status of the second law has come under increased scrutiny more than during any other period its 180 year history Since the early 1980s roughly 50 papers representing over 20 challenges have appeared in the refereed scientific literature In July 2002 the first conference on its status was convened at the University of San Diego attended by 120 researchers from 25 countries QLSL2002 1 In 2003 the second edition of Lees and Rex's classic anthology on Maxwell demons appeared 2 further raising interest in this emerging field In 2004 the mainstream scientific journal Entropy published a special edition devoted to second law challenges 3 And in July 2004 an echo of QLSL2002 was held in Prague Czech Republic 4 Modern second law challenges began in the early 1980s with the theoretical proposals of Gordon and Denur Starting in the mid 1990s several proposals for experimentally testable challenges were advanced by Sheehan et al By the late 1990s and early 2000s a rapid succession of theoretical quantum mechanical challenges were being advanced by Capek et al

Cosmological Pattern of Microphysics in the Inflationary Universe Maxim Y. Khlopov, Sergei G. Rubin, 2013-03-20 Modern cosmology is a quickly developing field of research New technical devices and tools supply the community with new experimental data measured with high accuracy The self-consistent explanation of these data needs theoretical models that are based on hypothetical predictions of particle theory In their turn such predictions imply cosmology for their probe Specific studies of the cosmological consequences of particle theory linking them to their observable signatures are actual This boiling kettle of theoretical research and experimental efforts produces ideas that will be preserved for following generations The aim of this book is to acquaint the reader with some of these ideas offering nontrivial ways to probe the physical basis of modern cosmology An extensive review of the newest ideas in modern cosmology e.g. related with the development of the M-brane theory lies beyond the scope of our book which is aimed at providing a firmly established system of probes for these ideas linking their predictions to their possible experimental test We use the framework of inflationary paradigm to reveal the phenomena that can shed light on the

physical origin of the observed Universe of its matter content and large scale structure The crucial role of quantum fluctuations in creation of our Universe and in possible features reflecting cosmological impact of microphysics is discussed These features are shown to be accessible to perimental test in the near future

Classical Electromagnetic Theory Jack Vanderlinde, 2006-01-17 In questions of science the authority of a thousand is not worth the humble reasoning of a single individual Galileo Galilei physicist and astronomer 1564 1642 This book is a second edition of Classical Electromagnetic Theory which derived from a set of lecture notes compiled over a number of years of teaching elect magnetic theory to fourth year physics and electrical engineering students These students had a previous exposure to electricity and magnetism and the material from the rst four and a half chapters was presented as a review I believe that the book makes a reasonable transition between the many excellent elementary books such as Gri th s Introduction to Electrodynamics and the obviously graduate level books such as Jackson s Classical Electrodynamics or Landau and Lifshitz Elect dynamics of Continuous Media If the students have had a previous exposure to Electromagnetictheory allthematerialcanbereasonablycoveredintwosemesters Neophytes should probable spenda semester on the rst four or ve chapters as well as depending on their mathematical background the Appendices B to F For a shorter or more elementary course the material on spherical waves waveguides and waves in anisotropic media may be omitted without loss of continuity

The Universe of Fluctuations Burra Sidharth, 2005-08-29 The Universe of Fluctuations The Architecture of Spacetime and the Universe is a path breaking work which proposes solutions to the impasse and crisis facing fundamental physics and cosmology It describes a cosmological model based on fuzzy spacetime that has correctly predicted a dark energy driven acceleration of our expanding universe with a small cosmological constant at a time when the popular belief was quite the contrary It describes how the Universe is made up of an underpinning of Planck oscillators in a Quantum Vacuum This leads to amongst other things a characterization of gravitation as being distributional over the entire Universe thereby providing an answer to a puzzle brought to light by Weinberg years ago and since overlooked There is also a simple formula for the mass spectrum of all known elementary particles based on QCD dynamics Many other interesting ramifications and experimental tests for the future are also discussed This apart there is a brief survey of some of the existing theories The book is accessible to junior and senior researchers in High Energy Physics and Cosmology as well as the serious graduate student in Physics

Generalized Thermodynamics Byung Chan Eu, 2006-04-11 Despite a long history of almost 180 years stretching back to the times of Carnot and later Clausius and Lord Kelvin amongst others following him the subject of thermodynamics has not as yet seen its full maturity in the sense that the theory of irreversible processes has remained incomplete The works of L Onsager J Meixner I Prigogine on the thermodyn ics of linear irreversible processes are in effect the early efforts toward the desired goal of giving an adequate description of irreversible processes but their theory is confined to near equilibrium phenomena The works in recent years by various research workers on the extension of the aforem tioned thermodynamic theory of linear

irreversible processes are further efforts toward the goal mentioned. The present work is another of such efforts and a contribution to the subject of generalizing the thermodynamics of reversible processes namely equilibrium thermodynamics to that of irreversible processes non equilibrium thermodynamics without being restricted to linear irreversible processes. In this context the terms far moved from equilibrium is often used in the literature and such states of macroscopic systems and non linear irreversible phenomena in them are the objects of interest in this work. The thermodynamics of processes either reversible or irreversible is a continuum mechanical theory of matter and energy and their exchange between different parts of the system and as such it makes no direct reference to the molecules constituting the substance under consideration.

Quantum Mechanical Irreversibility and Measurement Paolo Grigolini, 1993. The subject of this book emerged from a series of lectures that the author gave at the Department of Physics of the University of North Texas during the 1992 Spring Semester and reflects the vivacious discussions that he has been having with the students and the co workers attending this course. The main conclusion of these discussions was that the major tenet of the conservative physicists that classical physics must be recovered from quantum mechanics by adopting the statistical perspective of Gibbs implying by necessity a Gibbs ensemble of Universes as well as a Gibbs ensemble of observers is not satisfactory. It is actually as unsatisfactory as the dominant approaches to irreversibility. The book examines the current approaches to irreversibility in classical and quantum physics and shows that an objective theory of irreversibility does not exist yet and that all the current theories of irreversibility share with quantum mechanics elements of subjectivity making crucial the role played by the observer. In addition to the traditional quantum mechanical paradoxes concerning the quantum theory of measurement the book also discusses the new difficulties that the physics of chaos is causing to the widely accepted correspondence principle and suggests that the Boltzmann dream the dream that the fracture between dynamics and thermodynamics might be healed cannot become true within the framework of the current physics and that the establishment of a new physics is necessary for that ambitious purpose to be achieved. Vavilov-Cherenkov and Synchrotron Radiation G.N. Afanasiev, 2006-01-17

Annotation: This monograph is intended for the students of the third year and higher for postgraduates for the professional scientists both experimentalists and theoreticians dealing with Vavilov-Cherenkov and synchrotron radiations. Jacket

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