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PARTICLE METAPHYSICS

A Critical Account of
Subatomic Reality



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H. Paul Shuch



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Particle Metaphysics Brigitte Falkenburg,2007-03-12 Are the particles of modern physics real or are they virtual entities their existence deduced merely by abstract theories This book examines the continuing debate regarding the inner constitution of matter by exploring the particle concept in physics It investigates if the particles of particle physics are real or not Readers interested in the true meaning of such physical concepts will find this book informative and thought provoking

Particle Metaphysics Brigitte Falkenburg,2007-03-21 Metaphysics with which as fate would have it I have fallen in love but from which I can boast of only a few favours offers two kinds of advantage The first is this it can solve the problems thrown up by the enquiry of mind when it uses reason to spy after the more hidden properties of things But hope is here all too often disappointed by the outcome And on this occasion too satisfaction has escaped our eager grasp The second advantage of metaphysics is more consonant with the nature of the human understanding It consists in knowing what relation the question has to empirical concepts upon which all our judgements must at all times be based To that extent metaphysics is a science of the limits of human reason Thus the second advantage of metaphysics is at once the least known and the most important although it is also an advantage which is only attained at a fairly late stage and after long experience 1 Immanuel Kant The tradition of the particle concept goes back to traditional metaphysics and ancient philosophy The idea that matter is made up of microscopic constituent parts stems from ancient atomism At the very beginnings of modern physics it was taken up by Galileo Descartes and Newton Newton thought that there are atoms of matter and light but with the methods of Newtonian mechanics and optics they were beyond the reach of experiments

The Nonlinear Universe Alwyn C. Scott,2007-10-02 Written in Alwyn Scott's inimitable style one that readers will find both lucid and accessible this masterwork elucidates the explosion of activity in nonlinear science in recent decades The book explains the wide ranging implications of nonlinear phenomena for future developments in many areas of modern science including mathematics physics engineering chemistry biology and neuroscience Arguably as important as quantum theory modern nonlinear science is essential for understanding the scientific developments of the twenty first century

Mind, Matter and Quantum Mechanics Henry P. Stapp,2009-02-12 Leading quantum physicist Stapp focuses in this book on the problem of consciousness and explains how quantum mechanics allows causally effective conscious thought to be combined in a natural way with the physical brain made of neurons and atoms

Decoherence Maximilian A. Schlosshauer,2007-07-28 Over the course of the past decade decoherence has become a ubiquitous scientific term popular in all kinds of research from fundamental theories of quantum physics to applications in nanoengineering Decoherence has been hailed as the solution to long standing foundational problems dating back to the beginnings of quantum mechanics It has been cursed as the key obstacle to next generation technologies such as quantum computers another seemingly omnipresent field of research And while decoherence has been directly observed in various experiments its scope and meaning have often been misunderstood and misrepresented Decoherence makes a fantastic

subject of research as it touches upon many different facets of physics from philosophically inclined questions of interpretation all the way to down to earth problems in experimental settings and engineering applications This book will introduce the reader in an accessible and self contained manner to these various fascinating aspects of decoherence It will focus in particular on the relation of decoherence to the so called quantum to classical transition i e the question of how decoherence may explain the emergence of the classical appearance of the macroscopic world around us from the underlying quantum substrate The scope of this book is relatively broad in order to familiarize the reader with the many facets of decoherence in both the theoretical and experimental domains Throughout the book I have sought to maintain a healthy balance between the conceptual ideas associated with the decoherence program on the one hand and the formal and mathematical details on the other hand This book will establish a proper understanding of decoherence as a pure quantum phenomenon and will emphasize the importance of the correct interpretation of the consequences and achievements of decoherence

Relativity and the Nature of Spacetime Vesselin Petkov, 2009-06-23 This expanded second edition of Relativity and the Nature of Spacetime contains several major changes and a number of additions to different chapters Two chapters Chaps 6 and 7 which discussed two specific groups of arguments against the reality of spacetime have been transformed into appendices A and B Two new chapters Chaps 6 and 10 have been added Chapter 6 entitled Why Is the Issue of the Nature of Spacetime So Important elaborates on what was Sect 5.6 of the first edition and addresses some recent work on the nature of spacetime for example the growing or evolving block universe model of the world which has recently been revived by several physicists as what appears to be the last remaining alternative to the Minkowski absolute four dimensional world after it had become an undeniable fact that three dimensionalism or presentism contradicts the relativistic experimental evidence Chapter 10 entitled Spacetime and the Nature of Quantum Objects and based on what used to be Sects 6.2 and 6.3 in the first edition explores the implications of the issue of the nature of spacetime for quantum physics in order to see whether it can provide some insight into the nature of quantum objects Two new sections have been included namely Sect 5.6 entitled Relativization of Existence and Observers in General Relativity and Sect 7.6 titled Probing the Anisotropic Velocity of Light by a Terrestrial Experiment

Symmetry Rules Joseph Rosen, 2008-02-20 When we use science to describe and understand the world around us we are in essence grasping nature through symmetry Emphasizing the concepts this book leads the reader coherently and comprehensively into the fertile field of symmetry and its applications Among the most important applications considered are the fundamental forces of nature and the Universe Written by a renowned expert this book will convince all interested readers of the importance of symmetry in science

Mindful Universe Henry P. Stapp, 2007-06-13 The classical mechanistic idea of nature that prevailed during the eighteenth and nineteenth centuries was essentially mindless the physically described aspects of nature were asserted to be completely determined by prior physically described aspects alone with conscious experiences entering only passively In the last century these classical concepts were found inadequate In the

new quantum mechanics theory conscious experiences enter into the dynamics in specified ways not fixed by physically described aspects alone

Asymmetry: The Foundation of Information Scott J. Muller, 2007-05-11 As individual needs have arisen in the fields of physics electrical engineering and computational science each has created its own theories of information to serve as conceptual instruments for advancing developments This book provides a coherent consolidation of information theories from these different fields The author gives a survey of current theories and then introduces the underlying notion of symmetry showing how information is related to the capacity of a system to distinguish itself A formal methodology using group theory is employed and leads to the application of Burnside's Lemma to count distinguishable states This provides a versatile tool for quantifying complexity and information capacity in any physical system Written in an informal style the book is accessible to all researchers in the fields of physics chemistry biology computational science as well as many others

Extreme States of Matter Vladimir E. Fortov, 2010-11-16 With its many beautiful colour pictures this book gives fascinating insights into the unusual forms and behaviour of matter under extremely high pressures and temperatures These extreme states are generated among other things by strong shock detonation and electric explosion waves dense laser beams electron and ion beams hypersonic entry of spacecraft into dense atmospheres of planets and in many other situations characterized by extremely high pressures and temperatures Written by one of the world's foremost experts on the topic this book will inform and fascinate all scientists dealing with materials properties and physics and also serve as an excellent introduction to plasma shock wave and high energy density physics for students and newcomers seeking an overview

The Reality of Time Flow Richard T. W. Arthur, 2019-04-25 It is commonly held that there is no place for the now in physics and also that the passing of time is something subjective having to do with the way reality is experienced but not with the way reality is Indeed the majority of modern theoretical physicists and philosophers of physics contend that the passing of time is incompatible with modern physical theory and excluded in a fundamental description of physical reality This book provides a forceful rebuttal of such claims In successive chapters the author explains the historical precedents of the modern opposition to time flow giving careful expositions of matters relevant to becoming in classical physics the special and general theories of relativity and quantum theory without presupposing prior expertise in these subjects Analysing the arguments of thinkers ranging from Aristotle Russell and Bergson to the proponents of quantum gravity he contends that the passage of time understood as a local becoming of events out of those in their past at varying rates is not only compatible with the theories of modern physics but implicit in them

States of Consciousness Dean Cvetkovic, Irena Cosic, 2011-06-22 In this accessible overview of current knowledge an expert team of editors and authors describe experimental approaches to consciousness These approaches are shedding light on some of the hitherto unknown aspects of the distinct states of human consciousness including the waking state different states of sleep and dreaming meditation and more The book presents the latest research studies by the contributing authors whose specialities span

neuroscience neurology biomedical engineering clinical psychology and psychophysiology psychosocial medicine and anthropology Overall this anthology provides the reader with a clear picture of how different states of consciousness can be defined experimentally measured and analysed A future byproduct of this knowledge may be anticipated in the development of systematic corrective treatments for many disorders and pathological problems of consciousness

Searching for Extraterrestrial Intelligence H. Paul Shuch, 2011-02-14 This book is a collection of essays written by the very scientists and engineers who have led and continue to lead the scientific quest known as SETI the search for extraterrestrial intelligence Divided into three parts the first section The Spirit of SETI Past written by the surviving pioneers of this then emerging discipline reviews the major projects undertaken during the first 50 years of SETI science and the results of that research In the second section The Spirit of SETI Present the present day science and technology is discussed in detail providing the technical background to contemporary SETI instruments experiments and analytical techniques including the processing of the received signals to extract potential alien communications In the third and final section The Spirit of SETI Future the book looks ahead to the possible directions that SETI will take in the next 50 years addressing such important topics as interstellar message construction the risks and assumptions of interstellar communications when we might make contact what aliens might look like and what is likely to happen in the aftermath of such a contact

Entanglement, Information, and the Interpretation of Quantum Mechanics Gregg Jaeger, 2009-06-12 Entanglement was initially thought by some to be an oddity restricted to the realm of thought experiments However Bell's inequality delimiting local behavior and the experimental demonstration of its violation more than 25 years ago made it entirely clear that non local properties of pure quantum states are more than an intellectual curiosity Entanglement and non locality are now understood to figure prominently in the microphysical world a realm into which technology is rapidly hurtling Information theory is also increasingly recognized by physicists and philosophers as intimately related to the foundations of mechanics The clearest indicator of this relationship is that between quantum information and entanglement To some degree a deep relationship between information and mechanics in the quantum context was already there to be seen upon the introduction by Max Born and Wolfgang Pauli of the idea that the essence of pure quantum states lies in their provision of probabilities regarding the behavior of quantum systems via what has come to be known as the Born rule The significance of the relationship between mechanics and information became even clearer with Leo Szilard's analysis of James Clerk Maxwell's infamous demon thought experiment Here in addition to examining both entanglement and quantum information and their relationship I endeavor to critically assess the influence of the study of these subjects on the interpretation of quantum theory

The Seneca Effect Ugo Bardi, 2017-08-22 The essence of this book can be found in a line written by the ancient Roman Stoic Philosopher Lucius Annaeus Seneca Fortune is of sluggish growth but ruin is rapid This sentence summarizes the features of the phenomenon that we call collapse which is typically sudden and often unexpected like the proverbial house of cards But why are such

collapses so common and what generates them Several books have been published on the subject including the well known Collapse by Jared Diamond 2005 The collapse of complex societies by Joseph Tainter 1998 and The Tipping Point by Malcom Gladwell 2000 Why The Seneca Effect This book is an ambitious attempt to pull these various strands together by describing collapse from a multi disciplinary viewpoint The reader will discover how collapse is a collective phenomenon that occurs in what we call today complex systems with a special emphasis on system dynamics and the concept of feedback From this foundation Bardi applies the theory to real world systems from the mechanics of fracture and the collapse of large structures to financial collapses famines and population collapses the fall of entire civilizations and the most dreadful collapse we can imagine that of the planetary ecosystem generated by overexploitation and climate change The final objective of the book is to describe a conclusion that the ancient stoic philosophers had already discovered long ago but that modern system science has rediscovered today If you want to avoid collapse you need to embrace change not fight it Neither a book about doom and gloom nor a cornucopianist s dream The Seneca Effect goes to the heart of the challenges that we are facing today helping us to manage our future rather than be managed by it *Principles of Evolution* Hildegard Meyer-Ortmanns, Stefan Thurner, 2011-04-11 With contributions from a team of leading experts this volume provides a comprehensive survey of recent achievements in our scientific understanding of evolution The questions it asks concern the beginnings of the universe the origin of life and the chances of its arising at all the role of contingency and the search for universal features in the plethora of evolutionary phenomena Rather than oversimplified or premature answers the chapters provide a clear picture of how these essential problems are being tackled enabling the reader to understand current thinking and open questions The tools employed stem from a range of disciplines including mathematics physics biochemistry and cell biology Self organization as an overarching concept is demonstrated in the most diverse areas from galaxy formation in the universe to spindle and aster formation in the cell Chemical master equations population dynamics and evolutionary game theory are presented as suitable frameworks for understanding the universal mechanisms and organizational principles observed in a wide range of living units ranging from cells to societies This book will provide engaging reading and food for thought for all those seeking a deeper understanding of the science of evolution *Ancestors, Territoriality, and Gods* Ina Wunn, Davina Grojnowski, 2016-07-27 This books sets out to explain how and why religion came into being Today this question is as fascinating as ever especially since religion has moved to the centre of socio political relationships In contrast to the current but incomplete approaches from disciplines such as cognitive science and psychology the present authors adopt a new approach equally manifest and constructive that explains the origins of religion based strictly on behavioural biology They employ accepted research results that remove all need for speculation Decisive factors for the earliest demonstrations of religion are thus territorial behaviour and ranking coping with existential fears and conflict solution with the help of rituals These in turn in a process of cultural evolution are shown to be the roots of the historical and contemporary religions The

Biological Evolution of Religious Mind and Behavior Eckart Volland, Wulf Schiefenhövel, 2009-08-12 In a Darwinian world religious behavior just like other behaviors is likely to have undergone a process of natural selection in which it was rewarded in the evolutionary currency of reproductive success This book aims to provide a better understanding of the social scenarios in which selection pressure led to religious practices becoming an evolved human trait i e an adaptive answer to the conditions of living and surviving that prevailed among our prehistoric ancestors This aim is pursued by a team of expert authors from a range of disciplines Their contributions examine the relevant physiological emotional cognitive and social processes The resulting understanding of the functional interplay of these processes gives valuable insights into the biological roots and benefits of religion

Elegance and Enigma Maximilian Schlosshauer, 2011-08-02 Quantum mechanics is one of mankind's most remarkable intellectual achievements Stunningly successful and elegant it challenges our deepest intuitions about the world In this book seventeen physicists and philosophers all deeply concerned with understanding quantum mechanics reply to Schlosshauer's penetrating questions about the central issues They grant us an intimate look at their radically different ways of making sense of the theory's strangeness What is quantum mechanics about What is it telling us about nature Can quantum information or new experiments help lift the fog And where are we headed next Everyone interested in the contemporary but often longstanding conundrums of quantum theory whether lay reader or expert will find much food for thought in these pages A wealth of personal reflections and anecdotes guarantee an engaging read Participants Guido Bacciagaluppi Caslav Brukner Jeffrey Bub Arthur Fine Christopher Fuchs GianCarlo Ghirardi Shelly Goldstein Daniel Greenberger Lucien Hardy Anthony Leggett Tim Maudlin David Mermin Lee Smolin Antony Valentini David Wallace Anton Zeilinger and Wojciech Zurek

Quantum Superposition Mark P. Silverman, 2008-01-08 Coherence entanglement and interference arise from quantum superposition the most distinctive and puzzling feature of quantum physics Silverman whose extensive experimental and theoretical work has helped elucidate these processes presents a clear and engaging discussion of the role of quantum superposition in diverse quantum phenomena such as the wavelike nature of particle propagation indistinguishability of identical particles nonlocal interactions of correlated particles topological effects of magnetic fields and chiral asymmetry in nature He also examines how macroscopic quantum coherence may be able to extricate physics from its most challenging quandary the collapse of a massive degenerate star to a singularity in space in which the laws of physics break down Explained by a physicist with a concern for clarity and experimental achievability the extraordinary nature of quantum superposition will fascinate the reader not only for its apparent strangeness but also for its comprehensibility

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