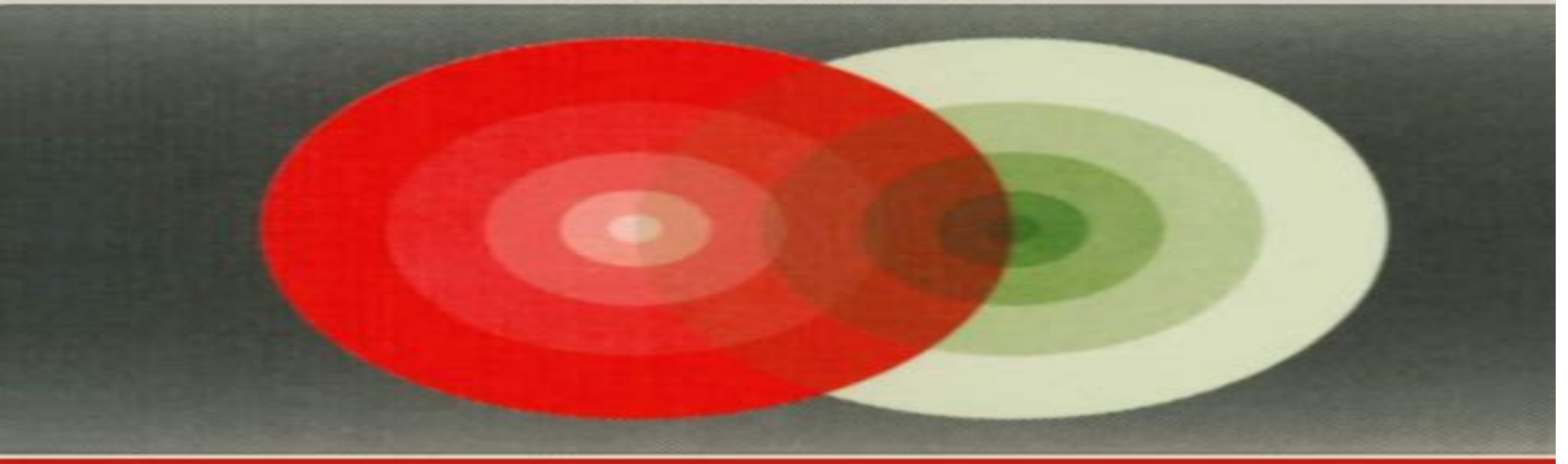
The Nature of Quantum Paradoxes

Edited by
Gino Tarozzi and Alwyn van der Merwe

Kluwer Academic Publishers



Fundamental Theories of Physics

Nature Of Quantum Paradoxes Italian Studies In The Foundations And Philosophy Of Modern Physics

Carl F. von Weizsäcker

Nature Of Quantum Paradoxes Italian Studies In The Foundations And Philosophy Of Modern Physics:

The Nature of Quantum Paradoxes G. Tarozzi,Alwyn van der Merwe,2012-12-06 For three days in April of 1985 Cesena Italy was the scene of a national conference which was convened by the Assessorato alia Cultura of this town under the auspices of the Societa Italiana di Logica e Filosofia delle Scienze SILFS in order to celebrate two historical milestones the centenary of the birth of Niels Bohr who was to become the leader of the orthodox or Copenhagen interpretation of quantum theory and the fiftieth anniversary of the publication of the most influential challenge to this interpretation which was contained in the well known paper coauthored by Einstein Podolsky and Rosen The proceedings of the Cesena meeting which are collected in the present volume are intended to provide an exhaustive and panoramic view of the most recent investigations carried out by Italian scientists and philo sophers engaged in research on the foundations of quantum physics What emerges is a critical review of and alternative approaches to the orthodox interpretation of the Copenhagen school

Causality and Locality in Modern Physics G. Hunter,Stanley Jeffers,J.P. Vigier,2013-06-29 The Symposium entitled Causality and Locality in Modern Physics and As tronomy Open Questions and Possible Solutions was held at York University Toronto during the last week of August 1997 It was a sequel to a similar sym posium entitled The Present Status of the Quantum Theory of Light held at the same venue in August 1995 These symposia came about as a result of discussions between Professor Stanley Jeffers and colleagues on the International Organizing Committee Professor Jeffers was the executive local organizer of the symposia The 1997 symposium attracted over 120 participants representing 26 different countries and academic institutions The broad theme of both symposia was the enigma of modern physics the non local and possibly superluminal interactions implied by quantum mechanics the structure of fundamental particles including the photon the reconciliation of quantum mechanics with the theory of relativity and the nature of gravity and inertia Jean Pierre Vigier was the guest of honour at both symposia He was a lively contributor to the discussions of the presentations The presentations were made as 30 minute lectures or during an evening poster session Some participants did not submit a written account of their presentation at the symposium and not all of the articles submitted for the Proceedings could be included because of the publisher s page limit The titles and authors of the papers that had to be excluded are listed in an appendix **The Foundations of Quantum Mechanics** Claudio Garola,Arcangelo Rossi,2012-12-06 In The Foundations of Quantum Mechanics Historical Analysis and Open Questions leading Italian researchers involved in different aspects of the foundations and history of quantum mechanics are brought together in an interdisciplinary debate The book therefore presents an invaluable overview of the state of Italian work in the field at this moment and of the open problems that still exist in the foundations of the theory Audience Physicists logicians mathematicians and epistemologists whose research concerns the historical analysis of quantum mechanics **Reading Bohr: Physics and Philosophy** Arkady Plotnitsky,2006-11-15 Reading Bohr Physics and Philosophy offers a new perspective on Niels Bohr s interpretation of

quantum mechanics as complementarity and on the relationships between physics and philosophy in Bohr s work which has had momentous significance for our understanding of quantum theory and of the nature of knowledge in general Philosophically the book reassesses Bohr s place in the Western philosophical tradition from Kant and Hegel on Physically it reconsiders the main issues at stake in the Bohr Einstein confrontation and in the ongoing debates concerning quantum physics It also devotes greater attention than in most commentaries on Bohr to the key developments and transformations of his thinking concerning complementarity Most significant among them were those that occurred first under the impact of Bohr s exchanges with Einstein and second under the impact of developments in quantum theory itself both quantum mechanics and quantum field theory The importance of quantum field theory for Bohr s thinking has not been adequately addressed in the literature on Bohr to the considerable detriment to our understanding of the history of quantum physics Filling this lacuna is one of the main contributions of the book which also enables us to show why quantum field theory compels us to move beyond Bohr without however simply leaving him behind *Fundamental Problems in Quantum Physics* M. Ferrero,Alwyn van der Merwe,2013-06-29 For many physicists quantum theory contains strong conceptual difficulties while for others the apparent conclusions about the reality of our physical world and the ways in which we discover that reality remain philosophically unacceptable This book focuses on recent theoretical and experimental developments in the foundations of quantum physics including topics such as the puzzles and paradoxes which appear when general relativity and quantum mechanics are combined the emergence of classical properties from quantum mechanics stochastic electrodynamics EPR experiments and Bell s Theorem the consistent histories approach and the problem of datum uniqueness in quantum mechanics non local measurements and teleportation of quantum states quantum non demolition measurements in optics and matter wave properties observed by neutron electron and atomic interferometry Audience This volume is intended for graduate students of physics and those interested in the foundations of quantum theory **New Developments on Fundamental Problems in Quantum Physics** M. Ferrero,Alwyn van der Merwe,2012-12-06 Quantum theory is one of the most fascinating and successful constructs in the intellectual history of mankind Nonetheless the theory has very shaky philosophical foundations This book contains thoughtful discussions by eminent researchers of a spate of experimental techniques newly developed to test some of the stranger predictions of quantum physics The advances considered include recent experiments in quantum optics electron and ion interferometry photon down conversion in nonlinear crystals single trapped ions interacting with laser beams atom field coupling in micromaser cavities quantum computation quantum cryptography decoherence and macroscopic quantum effects the quantum state diffusion model quantum gravity the quantum mechanics of cosmology and quantum non locality along with the continuing debate surrounding the interpretation of quantum mechanics Audience The book is intended for physicists philosophers of science mathematicians graduate students and those interested in the foundations of quantum theory **Current Research in**

Operational Quantum Logic Bob Coecke,David Moore,Alexander Wilce,2013-06-29 The present volume has its origins in a pair of informal workshops held at the Free University of Brussels in June of 1998 and May of 1999 named Current Research 1 in Operational Quantum Logic These brought together mathematicians and physicists working in operational quantum logic and related areas as well as a number of interested philosophers of science for a rare opportunity to discuss recent developments in this field After some discussion it was decided that rather than producing a volume of conference proceedings we would try to organize the conferees to produce a set of comprehensive survey papers which would not only report on recent developments in quantum logic but also provide a tutorial overview of the subject suitable for an interested non specialist audience The resulting volume provides an overview of the concepts and methods used in current research in quantum logic viewed both as a branch of mathemati cal physics and as an area of pure mathematics The first half of the book is concerned with the algebraic side of the subject and in particular the theory of orthomodular lattices and posets effect algebras etc In the second half of the book special attention is given to categorical methods and to connections with theoretical computer science At the 1999 workshop we were fortunate to hear three excellent lectures by David J Foulis represented here by two contributions Dave s work spanning 40 years has helped to define and continues to reshape the field of quantum logic **The Structure of Physics** Carl F. von Weizsäcker,2007-01-15 Carl Friedrich von Weizs cker 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 rnitz has been included as well as a general introduction to Weizs cker s Philosophy of Physics Carl Friedrich von Weizs cker 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 Weizs cker Carl Hanser Verlag M nchen Wien 1985 Applications of the Theory of Groups in Mechanics and Physics Petre P. Teodorescu,Nicolae-A.P. Nicorovici,2004-04-30 The notion of group is fundamental in our days not only in mathematics but also in classical mechanics electromagnetism theory of relativity quantum mechanics theory of elementary particles etc This notion has developed during a century and this development is connected with the names of great mathematicians as E Galois A L Cauchy C F Gauss W R Hamilton C Jordan S Lie E Cartan H Weyl E Wigner and of many others In mathematics as in other sciences the simple and fertile ideas make their way with

difficulty and slowly however this long history would have been of a minor interest had the notion of group remained connected only with rather restricted domains of mathematics those in which it occurred at the beginning But at present groups have invaded almost all mathematical disciplines mechanics the largest part of physics of chemistry etc We may say without exaggeration that this is the most important idea that occurred in mathematics since the invention of infinitesimal calculus indeed the notion of group expresses in a precise and operational form the vague and universal ideas of regularity and symmetry The notion of group led to a profound understanding of the character of the laws which govern natural phenomena permitting to formulate new laws correcting certain inadequate formulations and providing unitary and non contradictory formulations for the investigated phenomena *Solving Frontier Problems of Physics: The Decomposition Method* G. Adomian,2013-06-29 The Adomian decomposition method enables the accurate and efficient analytic solution of nonlinear ordinary or partial differential equations without the need to resort to linearization or perturbation approaches It unifies the treatment of linear and nonlinear ordinary or partial differential equations or systems of such equations into a single basic method which is applicable to both initial and boundary value problems This volume deals with the application of this method to many problems of physics including some frontier problems which have previously required much more computationally intensive approaches The opening chapters deal with various fundamental aspects of the decomposition method Subsequent chapters deal with the application of the method to nonlinear oscillatory systems in physics the Duffing equation boundary value problems with closed irregular contours or surfaces and other frontier areas The potential application of this method to a wide range of problems in diverse disciplines such as biology hydrology semiconductor physics wave propagation etc is highlighted For researchers and graduate students of physics applied mathematics and engineering whose work involves mathematical modelling and the quantitative solution of systems of equations Clifford Algebras and their Applications in Mathematical Physics A. Micali,R. Boudet,J. Helmstetter,2013-03-09 This volume contains selected papers presented at the Second Workshop on Clifford Algebras and their Applications in Mathematical Physics These papers range from various algebraic and analytic aspects of Clifford algebras to applications in for example gauge fields relativity theory supersymmetry and supergravity and condensed phase physics Included is a biography and list of publications of M rio Schenberg who next to Marcel Riesz has made valuable contributions to these topics This volume will be of interest to mathematicians working in the fields of algebra geometry or special functions to physicists working on quantum mechanics or supersymmetry and to historians of mathematical physics The Theory of Sprays and Finsler Spaces with Applications in Physics and Biology P.L. Antonelli,Roman S. Ingarden,M. Matsumoto,2013-03-09 The present book has been written by two mathematicians and one physicist a pure mathematician specializing in Finsler geometry Makoto Matsumoto one working in mathematical biology Peter Antonelli and a mathematical physicist specializing in information thermodynamics Roman Ingarden The main purpose of this book is to present the principles and methods of

sprays path spaces and Finsler spaces together with examples of applications to physical and life sciences It is our aim to write an introductory book on Finsler geometry and its applications at a fairly advanced level It is intended especially for graduate students in pure mathemat ics science and applied mathematics but should be also of interest to those pure Finslerists who would like to see their subject applied After more than 70 years of relatively slow development Finsler geometry is now a modern subject with a large body of theorems and techniques and has math ematical content comparable to any field of modern differential geometry The time has come to say this in full voice against those who have thought Finsler geometry because of its computational complexity is only of marginal interest and with prac tically no interesting applications Contrary to these outdated fossilized opinions we believe the world is Finslerian in a true sense and we will try to show this in our application in thermodynamics optics ecology evolution and developmental biology On the other hand while the complexity of the subject has not disappeared the modern bundle theoretic approach has increased greatly its understandability *Quantum Mechanics* Ajoy Ghatak,S. Lokanathan,2004-03-31 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 **Euclidean Quantum Gravity on Manifolds with Boundary** Giampiero Esposito,A.Yu. Kamenshchik,G. Pollifrone,2012-12-06 This book reflects our own struggle to understand the semiclassical behaviour of quantized fields in the presence of boundaries Along many years motivated by the problems of quantum cosmology and quantum field theory we have studied in detail the one loop properties of massless spin l 2 fields Euclidean Maxwell the ory gravitino potentials and Euclidean quantum gravity Hence our book begins with a review of the physical and mathematical motivations for studying physical theories in the presence of boundaries with emphasis on electrostatics vacuum v Maxwell theory and quantum cosmology We then study the Feynman propagator in Minkowski space time and in curved space time In the latter case the corre sponding Schwinger DeWitt asymptotic expansion is given The following chapters are devoted to the standard theory of the effective action and the geometric im provement due to Vilkovisky the manifestly covariant quantization of gauge fields zeta function regularization in mathematics and in quantum field theory and the problem of boundary conditions in one loop

quantum theory For this purpose we study in detail Dirichlet Neumann and Robin boundary conditions for scalar fields local and non local boundary conditions for massless spin l 2 fields mixed boundary conditions for gauge fields and gravitation This is the content of Part I Part II presents our investigations of Euclidean Maxwell theory simple super gravity and Euclidean quantum gravity **The Quantum Dice** Luis de la Peña,A.M. Cetto,2013-03-09 In spite of the impressive predictive power and strong mathematical structure of quantum mechanics the theory has always suffered from important conceptual problems Some of these have never been solved Motivated by this state of affairs a number of physicists have worked together for over thirty years to develop stochastic electrodynamics a physical theory aimed at finding a conceptually satisfactory realistic explanation of quantum phenomena This is the first book to present a comprehensive review of stochastic electrodynamics from its origins to present day developments After a general introduction for the non specialist a critical discussion is presented of the main results of the theory as well as of the major problems encountered A chapter on stochastic optics and some interesting consequences for local realism and the Bell inequalities is included In the final chapters the authors propose and develop a new version of the theory that brings it in closer correspondence with quantum mechanics and sheds some light on the wave aspects of matter and the linkage with quantum electrodynamics Audience The volume will be of interest to scholars and postgraduate students of theoretical and mathematical physics foundations and philosophy of physics and teachers of theoretical physics and quantum mechanics electromagnetic theory and statistical physics stochastic processes **The Quantum Labyrinth** D.J. Hoekzema,2012-12-06 At the outset of the research leading to this book I held a position somewhere close to the standard Copenhagen interpretation of QM I was strongly attracted to in particular the philosophy of Niels Bohr However being aware of some of the problematic sides and ambiguities of his views and of new developments which have taken place in QM after his time the main challenge would be to develop a more up to date version version of his approach and express it in a philosophically unobjectionable way Traces of this original attitude can still be found in views I hold nowadays For instance I think that I now know a satisfactory and correct way of dealing with features like complementarity and I still see this as a relevant subject In many other respects however there have been major changes in my position In fact during certain stages of my research my views simply started moving and kept on doing so at an irritating pace and for uncomfortably long periods of time I learned for example that at least some of the classical ideas about theory structure are much better than I had realized and cannot just be pushed aside for anything even as impressive as empirical success Quantum Geometry Margaret Prugovecki,2013-03-14 This monograph presents a review and analysis of the main mathematical physical and epistomological difficulties encountered at the foundational level by all the conventional formulations of relativistic quantum theories ranging from relativistic quantum mechanics and quantum field theory in Minkowski space to the various canonical and covariant approaches to quantum gravity It is however primarily devoted to the systematic presentation of a quantum framework meant to deal effectively with these difficulties by

reconsidering the foundations of these subjects analyzing their epistemic nature and then developing mathematical tools which are specifically designed for the elimination of all the basic inconsistencies A carefully documented historical survey is included and additional extensive notes containing quotations from original sources are incorporated at the end of each chapter so that the reader will be brought up to date with the very latest developments in quantum field theory in curved spacetime quantum gravity and quantum cosmology The survey further provides a backdrop against which the new foundational and mathematical ideas of the present approach to these subjects can be brought out in sharper relief

Factorization Method in Quantum Mechanics Shi-Hai Dong,2007-04-01 This book introduces the factorization method in quantum mechanics at an advanced level with the aim of putting mathematical and physical concepts and techniques like the factorization method Lie algebras matrix elements and quantum control at the reader s disposal For this purpose the text provides a comprehensive description of the factorization method and its wide applications in quantum mechanics which complements the traditional coverage found in quantum mechanics textbooks *Quantum Logic in Algebraic Approach* Miklós Rédei,2013-03-09 This work has grown out of the lecture notes that were prepared for a series of seminars on some selected topics in quantum logic The seminars were delivered during the first semester of the 1993 1994 academic year in the Unit for Foundations of Science of the Department of History and Foundations of Mathematics and Science Faculty of Physics Utrecht University The Netherlands while I was staying in that Unit on a European Community Research Grant and in the Center for Philosophy of Science University of Pittsburgh U S A where I was staying during the 1994 1995 academic year as a Visiting Fellow on a Fulbright Research Grant and where I also was supported by the Istvan Szechenyi Scholarship Foundation The financial support provided by these foundations by the Center for Philosophy of Science and by the European Community is greatly acknowledged and I wish to thank D Dieks the professor of the Foundations Group in Utrecht and G Massey the director of the Center for Philosophy of Science in Pittsburgh for making my stay at the respective institutions possible I also wish to thank both the members of the Foundations Group in Utrecht especially D Dieks C Lutz F Muller J Uffink and P Vermaas and the participants in the seminars at the Center for Philosophy of Science in Pittsburgh especially N Belnap J Earman A Janis J Norton and J Cosmological Pattern of Microphysics in the Inflationary Universe Maxim Y. Khlopov,Sergei G. Rubin,2013-03-20 Modern cosmology is a quickly developing eld 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 t oretical models that are based on hypothetical predictions of particle theory In their turn such predictions imply cosmology for their probe Speci c st ies 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 fering 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 rmly established system of probes for these ideas linking their predictions to their possible experimental test We use the framework of in ationary 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 uctuations in creation of our Universe and in possible features re ecting cosmological impact of microphysics is discussed These features are shown to be accessible to perimental test in the near future

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Introduction

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