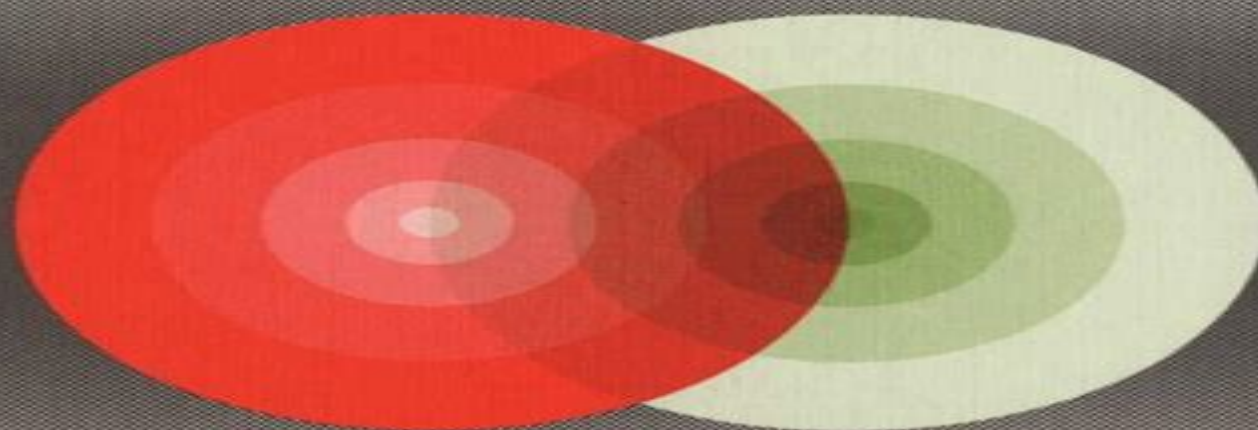


# **Quantum Logic in Algebraic Approach**

by

**Miklós Rédei**

Springer Science+Business Media, B.V.



**Fundamental Theories of Physics**



# Quantum Logic In Algebraic Approach

**Valerio Faraoni**





## **Quantum Logic In Algebraic Approach:**

**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 **The**

**Logico-Algebraic Approach to Quantum Mechanics** C.A. Hooker, 2012-12-06 The twentieth century has witnessed a striking transformation in the understanding of the theories of mathematical physics There has emerged clearly the idea that physical theories are significantly characterized by their abstract mathematical structure This is in opposition to the traditional opinion that one should look to the specific applications of a theory in order to understand it One might with reason now espouse the view that to understand the deeper character of a theory one must know its abstract structure and understand the significance of that structure while to understand how a theory might be modified in light of its experimental inadequacies one must be intimately acquainted with how it is applied Quantum theory itself has gone through a development this century which illustrates strikingly the shifting perspective From a collection of intuitive physical maneuvers under Bohr through a formative stage in which the mathematical framework was bifurcated between Schrödinger and Heisenberg to an elegant culmination in von Neumann's Hilbert space formulation the elementary theory moved flanked even at the later stage by the ill understood formalisms for the relativistic version and for the field theoretic alternative after that we have a gradual but constant elaboration of all these quantal theories as abstract mathematical structures their point of departure being von Neumann's formalism until at the present time theoretical work is heavily preoccupied with the manipulation of purely abstract structures **The Logico-Algebraic Approach to Quantum Mechanics** C.A. Hooker, 1979-05-31 The twentieth century has witnessed a striking transformation in the understanding of the theories of mathematical physics There has emerged clearly the idea that physical theories are significantly characterized by their abstract mathematical structure This is in opposition to the traditional opinion that one should look to the specific applications of a theory in order to



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An Algebraic Approach to Empirical Science and Quantum Logic Timothy Scott Thomas, NAVAL ACADEMY ANNAPOLIS MD., 1982 This paper develops some of the work of Foulis Randall Aerts and Piron in the fields of empirical science and quantum logic from an algebraic point of view More specifically it begins with three axioms of what is called a subtraction algebra and generates various theorems associated with properties which are useful in empirical science After a foundation is established it moves on to define the term manual This term is defined as a dominated atomic semi Boolean algebra which satisfies an additional condition called condition M Several properties of the manual are discussed and different types of manuals are given classical semi classical and non classical The paper defines operational complements operational perspective atoms events and tests before moving on to define a logic and how it is derived from a manual Properties of the logic are discussed including a subtraction operation a partial order and an ortho complement Next



a computer program is presented Its purpose is to take a finite semi Boolean algebra and decide if the algebra is a manual This is followed by a brief non classical probabilistic discussion which includes topics such as weights pure states and dispersion free states Aerts and Piron s work with properties states and questions is briefly discussed before moving on to several examples some of them arising from navigation problems The examples include the hook the square the Wright Triangle and the free algebra Empirical techniques are demonstrated on these examples The examples comprise the bulk of this paper

**Handbook of Quantum Logic and Quantum Structures** Kurt Engesser,Dov M. Gabbay,Daniel Lehmann,2009-06-16 Quantum mechanics is said to be the most successful physical theory ever It is in fact unique in its success when applied to concrete physical problems On the other hand however it raises profound conceptual problems that are equally unprecedented Quantum logic the topic of this volume can be described as an attempt to cast light on the puzzle of quantum mechanics from the point of view of logic Since its inception in the famous 1936 paper by Birkhoff and von Neumann entitled The logic of quantum mechanics quantum logic has undergone an enormous development Various schools of thought and approaches have emerged and there are a variety of technical results The chapters of this volume constitute a comprehensive presentation of the main schools approaches and results in the field of quantum logic Authored by eminent scholars in the field Material presented is of recent origin representing the frontier of the subject Provides the most comprehensive and varied discussion of Quantum Mechanics available

Algebraic Methods in General Rough Sets A. Mani,Gianpiero Cattaneo,Ivo Düntsch,2019-01-11 This unique collection of research papers offers a comprehensive and up to date guide to algebraic approaches to rough sets and reasoning with vagueness It bridges important gaps outlines intriguing future research directions and connects algebraic approaches to rough sets with those for other forms of approximate reasoning In addition the book reworks algebraic approaches to axiomatic granularity Given its scope the book offers a valuable resource for researchers and teachers in the areas of rough sets and algebras of rough sets algebraic logic non classical logic fuzzy sets possibility theory formal concept analysis computational learning theory category theory and other formal approaches to vagueness and approximate reasoning Consultants in AI and allied fields will also find the book to be of great practical value

The Logico-Algebraic Approach to Quantum Mechanics C.A. Hooker,1975-09-30 The twentieth century has witnessed a striking transformation in the understanding of the theories of mathematical physics There has emerged clearly the idea that physical theories are significantly characterized by their abstract mathematical structure This is in opposition to the traditional opinion that one should look to the specific applications of a theory in order to understand it One might with reason now espouse the view that to understand the deeper character of a theory one must know its abstract structure and understand the significance of that structure while to understand how a theory might be modified in light of its experimental inadequacies one must be intimately acquainted with how it is applied Quantum theory itself has gone through a development this century which illustrates strikingly the shifting perspective From a collection of intuitive



physical maneuvers under Bohr through a formative stage in which the mathematical framework was bifurcated between Schrödinger and Heisenberg to an elegant culmination in von Neumann's Hilbert space formulation the elementary theory moved flanked even at the later stage by the ill understood formalisms for the relativistic version and for the field theoretic alternative after that we have a gradual but constant elaboration of all these quantal theories as abstract mathematical structures their point of departure being von Neumann's formalism until at the present time theoretical work is heavily preoccupied with the manipulation of purely abstract structures

**The Many Valued and Nonmonotonic Turn in Logic**

Dov M. Gabbay, John Woods, 2007-08-13 The present volume of the Handbook of the History of Logic brings together two of the most important developments in 20th century non classical logic These are many valuedness and non monotonicity On the one approach in deference to vagueness temporal or quantum indeterminacy or reference failure sentences that are classically non bivalent are allowed as inputs and outputs to consequence relations Many valued dialethic fuzzy and quantum logics are among other things principled attempts to regulate the flow through of sentences that are neither true nor false On the second or non monotonic approach constraints are placed on inputs and sometimes on outputs of a classical consequence relation with a view to producing a notion of consequence that serves in a more realistic way the requirements of real life inference Many valued logics produce an interesting problem Non bivalent inputs produce classically valid consequence statements for any choice of outputs A major task of many valued logics of all stripes is to fashion an appropriately non classical relation of consequence The chief preoccupation of non monotonic and default logicians is how to constrain inputs and outputs of the consequence relation In what is called left non monotonicity it is forbidden to add new sentences to the inputs of true consequence statements The restriction takes notice of the fact that new information will sometimes override an antecedently and reasonably derived consequence In what is called right non monotonicity limitations are imposed on outputs of the consequence relation Most notably perhaps is the requirement that the rule of or introduction not be given free sway on outputs Also prominent is the effort of paraconsistent logicians both preservationist and dialethic to limit the outputs of inconsistent inputs which in classical contexts are wholly unconstrained In some instances our two themes coincide Dialethic logics are a case in point Dialethic logics allow certain selected sentences to have as a third truth value the classical values of truth and falsity together So such logics also admit classically inconsistent inputs A central task is to construct a right non monotonic consequence relation that allows for these many valued and inconsistent inputs

The Many Valued and Non Monotonic Turn in Logic is an indispensable research tool for anyone interested in the development of logic including researchers graduate and senior undergraduate students in logic history of logic mathematics history of mathematics computer science AI linguistics cognitive science argumentation theory and the history of ideas Detailed and comprehensive chapters covering the entire range of modal logic Contains the latest scholarly discoveries and interpretative insights that answers many questions in the field of logic

Quanta, Logic And Spacetime (2nd Edition)



Stephen A Selesnick, 2003-12-04 In this expanded edition of *Quanta Logic and Spacetime* the logical base is greatly broadened and quantum computational aspects of the approach are brought to the fore The first two parts of this edition may indeed be regarded as providing a self contained and logic based foundation for and an introduction to the enterprise known as quantum computing The rest of the work takes on the task as in the first edition of computing from first principles certain dynamical expressions which turn out to compare favorably with the Lagrangian densities of the massless Standard Model including gravity The logic of this process is now subject to greater formal rigor than was possible in the first edition and the central thesis that quantum physics at a fundamental level may itself be realized as a species of quantum computation is strongly underscored

**Probabilities, Laws, and Structures** Dennis Dieks, Wenceslao J. Gonzalez, Stephan

Hartmann, Michael Stöltzner, Marcel Weber, 2012-02-02 This volume the third in this Springer series contains selected papers from the four workshops organized by the ESF Research Networking Programme The Philosophy of Science in a European Perspective PSE in 2010 Pluralism in the Foundations of Statistics Points of Contact between the Philosophy of Physics and the Philosophy of Biology The Debate on Mathematical Modeling in the Social Sciences Historical Debates about Logic Probability and Statistics The volume is accordingly divided in four sections each of them containing papers coming from the workshop focussing on one of these themes While the programme's core topic for the year 2010 was probability and statistics the organizers of the workshops embraced the opportunity of building bridges to more or less closely connected issues in general philosophy of science philosophy of physics and philosophy of the special sciences However papers that analyze the concept of probability for various philosophical purposes are clearly a major theme in this volume as it was in the previous volumes of the same series This reflects the impressive productivity of probabilistic approaches in the philosophy of science which form an important part of what has become known as formal epistemology although of course there are non probabilistic approaches in formal epistemology as well It is probably fair to say that Europe has been particularly strong in this area of philosophy in recent years

The Landscape of Theoretical Physics: A Global View M. Pavsic, 2001-11-30 Today many important directions of research are being pursued more or less independently of each other These are for instance strings and mem branes induced gravity embedding of spacetime into a higher dimensional space the brane world scenario the quantum theory in curved spaces Fock Schwinger proper time formalism parametrized relativistic quantum theory quantum gravity wormholes and the problem of time machines spin and supersymmetry geometric calculus based on Clifford algebra various interpretations of quantum mechanics including the Everett interpretation and the recent important approach known as decoherence A big problem as I see it is that various people thoroughly investigate their narrow field without being aware of certain very close relations to other fields of research What we need now is not only to see the trees but also the forest In the present book I intend to do just that to carry out a first approximation to a synthesis of the related fundamental theories of physics I sincerely hope that such a book will be useful to physicists From a certain viewpoint the



book could be considered as a course in the theoretical physics in which the foundations of all those relevant fundamental theories and concepts are attempted to be thoroughly reviewed. Unsolved problems and paradoxes are pointed out. I show that most of those approaches have a common basis in the theory of unconstrained membranes. The very interesting and important concept of membrane space, the tensor calculus in and functional transformations in are discussed.

**Hierarchical Methods** V. Kulish, 2006-04-11 The book consists of two Volumes. The first, the preceding volume, is devoted to the general nonlinear theory of the hierarchical dynamic oscillative wave systems. This theory has been called the theory of hierarchical oscillations and waves. Here two aspects of the proposed theory are discussed. The first aspects concern the fundamental nature and the basic concepts and ideas of a new hierarchical approach to studying hierarchical dynamic systems. A new hierarchical paradigm is proposed as a basis of a new point of view of such types of systems. In turn, a set of hierarchical principles is formulated as the fundamental basis of this paradigm. Therein, the self-resemblance holographic principle plays a key role here. An adequate mathematical description, factorization of the proposed paradigm is carried out. The concepts of structural and dynamic functional operators are put into the basis of this description. Electrodynamics is chosen as a convenient basis for an obvious demonstration of some key points of the proposed new theory. The second aspect has a purely mathematical nature. It is related to the form of factorization, i.e. mathematical description of hierarchical types of dynamic models and discussion of the methods of their mathematical analysis. A set of the hierarchical asymptotic analytical numerical methods is given as an evidence of the practical effectiveness of the proposed version of hierarchical theory. Finslerian Geometries

P.L. Antonelli, 2012-12-06 The International Conference on Finsler and Lagrange Geometry and its Applications: A Meeting of Minds took place August 13-20, 1998 at the University of Alberta in Edmonton, Canada. The main objective of this meeting was to help acquaint North American geometers with the extensive modern literature on Finsler geometry and Lagrange geometry of the Japanese and European schools, each with its own venerable history, on the one hand, and to communicate recent advances in stochastic theory and Hodge theory for Finsler manifolds by the younger North American school, on the other. The intent was to bring together practitioners of these schools of thought in a Canadian venue where there would be ample opportunity to exchange information and have cordial personal interactions. The present set of refereed papers begins with the Pedagogical Section I where introductory and brief survey articles are presented, one from the Japanese School and two from the European School. Romania and Hungary. These have been prepared for non-experts with the intent of explaining basic points of view. The Section III is the main body of work. It is arranged in alphabetical order by author. Section II gives a brief account of each of these contributions with a short reference list at the end. More extensive references are given in the individual articles. **Complex Spaces in Finsler, Lagrange and Hamilton Geometries**

Gheorghe Munteanu, 2012-11-03 From a historical point of view, the theory we submit to the present study has its origins in the famous dissertation of P. Finsler from 1918. In the classical notion, also conventional classification, Finsler geometry



has besides a number of generalizations which use the same work technique and which can be considered self geometries Lagrange and Hamilton spaces Finsler geometry had a period of incubation long enough so that few mathematicians E Cartan L Berwald S S Chern H Rund had the patience to penetrate into a universe of tensors which made them compare it to a jungle To all of us who study nowadays Finsler geometry it is obvious that the qualitative leap was made in the 1970 s by the crystallization of the nonlinear connection notion a notion which is almost as old as Finsler space SZ4 and by work skills into its adapted frame fields The results obtained by M Matsumoto collected later in 1986 in a monograph Ma3 aroused interest not only in Japan but also in other countries such as Romania Hungary Canada and the USA where schools of Finsler geometry are founded and are presently widely recognized

Cosmological Pattern of Microphysics in the Inflationary Universe Maxim Y. Khlopov, Sergei G. Rubin, 2004-11-17 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 finding 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 experimental test in the near future

Deformed Spacetime Fabio Cardone, Roberto Mignani, 2007-09-04 This volume provides a detailed discussion of the mathematical aspects and physical applications of a new geometrical structure of space time based on a generalization deformation of the usual Minkowski space as supposed to be endowed with a metric whose coefficients depend on the energy This new five dimensional scheme Deformed Relativity in Five Dimensions DR5 represents a true generalization of the usual Kaluza Klein KK formalism

*Cosmology in Scalar-Tensor Gravity* Valerio Faraoni, 2004-04-30 *Cosmology in Scalar Tensor Gravity* covers all aspects of cosmology in scalar tensor theories of gravity Considerable progress has been made in this exciting area of physics and this book is the first to provide a critical overview of the research Among the topics treated are Scalar tensor gravity and its limit to general relativity Effective energy momentum tensors and conformal frames Gravitational waves in scalar tensor cosmology Specific scalar tensor theories Exact cosmological solutions and cosmological perturbations Scalar tensor scenarios of the early universe and inflation



Scalar tensor models of quintessence in the present universe and their far reaching consequences for the ultimate fate of the cosmos

**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.

*Information Dynamics in Cognitive, Psychological, Social, and Anomalous Phenomena* Andrei Y. Khrennikov, 2013-06-29

In this book we develop various mathematical models of information dynamics, including the process of thinking based on methods of classical and quantum physics. The main aim of our investigations is to describe mathematically the phenomenon of consciousness. We would like to realize a kind of Newton-Descartes program corrected by the lessons of statistical and quantum mechanics for information processes. Starting from the ideas of Newton and Descartes in physics, there was developed an adequate description of the dynamics of material systems. We would like to develop an analogous mathematical formalism for information and, in particular, mental processes. At the beginning of the 21st century it is clear that it would be impossible to create a deterministic model for general information processes. A deterministic model has to be completed by a corresponding statistical model of information flows and, in particular, flows of minds. It might be that such an information statistical model should have a quantum-like structure.



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