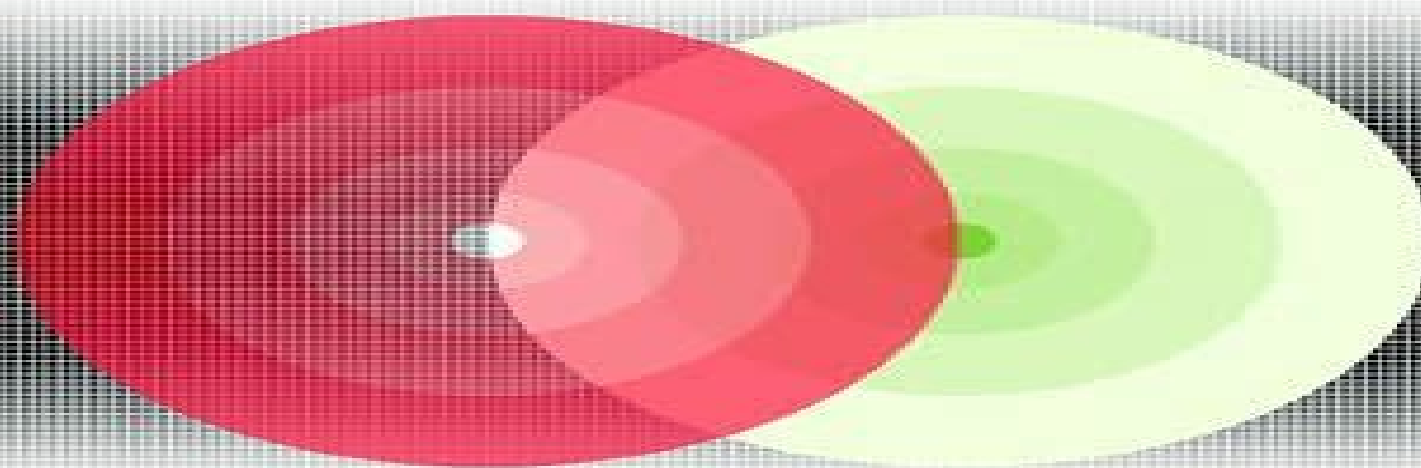


Orthomodular Structures as Quantum Logics

by

Pavel Pták and Sylvia Pulmannová

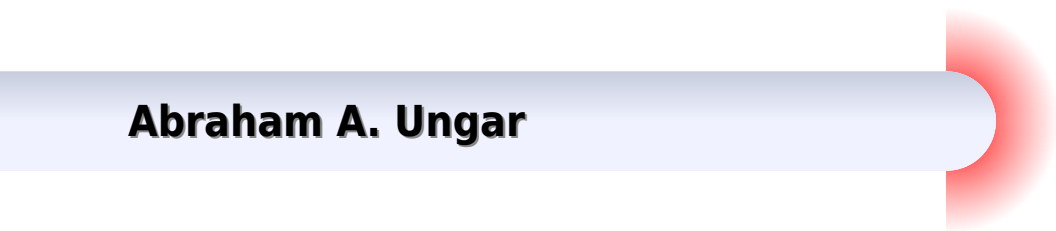
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Fundamental Theories of Physics

Orthomodular Structures As Quantum Logics Intrinsic Properties State Space And Probabilistic Topics

Abraham A. Ungar



Orthomodular Structures As Quantum Logics Intrinsic Properties State Space And Probabilistic Topics:

Quantum, Probability, Logic Meir Hemmo, Orly Shenker, 2020-04-07 This volume provides a broad perspective on the state of the art in the philosophy and conceptual foundations of quantum mechanics. Its essays take their starting point in the work and influence of Itamar Pitowsky who has greatly influenced our understanding of what is characteristically non-classical about quantum probabilities and quantum logic and this serves as a vantage point from which they reflect on key ongoing debates in the field. Readers will find a definitive and multi-faceted description of the major open questions in the foundations of quantum mechanics today including: Is quantum mechanics a new theory of contextual probability? Should the quantum state be interpreted objectively or subjectively? How should probability be understood in the Everett interpretation of quantum mechanics? What are the limits of the physical implementation of computation? The impact of this volume goes beyond the exposition of Pitowsky's influence; it provides a unique collection of essays by leading thinkers containing profound reflections on the field.

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and the Conventionality of Non Classicality Alexander Wilce

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

Orthomodular Structures as Quantum Logics Pavel Pták, Sylvia

Pulmannová, 1991-06-30

Quantum Theory: Concepts and Methods A. Peres, 2006-06-01

There are many excellent books on quantum theory from which one can learn to compute energy levels transition rates cross sections etc The theoretical rules given in these books are routinely used by physicists to compute observable quantities Their predictions can then be compared with experimental data There is no fundamental disagreement among physicists on how to use the theory for these practical purposes However there are profound differences in their opinions on the ontological meaning of quantum theory The purpose of this book is to clarify the conceptual meaning of quantum theory and to explain some of the mathematical methods which it utilizes This text is not concerned with specialized topics such as atomic structure or strong or weak interactions but with the very foundations of the theory This is not however a book on the philosophy of science The approach is pragmatic and strictly instrumentalist This attitude will undoubtedly antagonize some readers but it has its own logic quantum phenomena do not occur in a Hilbert space they occur in a laboratory

Maximum Entropy and Bayesian Methods Kenneth M. Hanson, Richard N. Silver, 2012-12-06 Proceedings of the Fifteenth International Workshop on Maximum Entropy and Bayesian Methods Santa Fe New Mexico USA 1995

Maximum Entropy and Bayesian Methods Santa Barbara, California, U.S.A., 1993 Glenn R. Heidbreder, 2013-03-09

Maximum entropy and Bayesian methods have fundamental central roles in scientific inference and with the growing availability of computer power are being successfully applied in an increasing number of applications in many disciplines This volume contains selected papers presented at the Thirteenth International Workshop on Maximum Entropy and Bayesian Methods It includes an extensive tutorial section and a variety of contributions detailing application in the physical sciences engineering law and economics Audience Researchers

and other professionals whose work requires the application of practical statistical inference 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 **Quantum Optics and the Spectroscopy of Solids** T. Hakiogammalu, Alexander S. Shumovsky, 2013-03-09 Remarkable recent progress in quantum optics has given rise to extremely precise quantum measurements that are used in the research into the fundamentals of quantum physics and in different branches of physics such as optical spectroscopy This progress stimulates new technologies in the field of optical communications optical computation and information systems This state of the art volume presents work from a Summer School on Advances in Quantum Optics and Spectroscopy of Solids held in Ankara Turkey in 1995 The various contributions written by leading scientists in the field cover a wide range of subjects in this exciting area of physics and report new and important results and ideas Topics dealt with include the interaction of quantum light with trapped atoms and condensed matter quantum tomography and phase analysis and many applications of quantum optics from mesoscopic physics to correlation spectroscopy of non classical states which are of major importance in understanding the nature of collective excitations in solids Audience This book will be of interest to postgraduate students and researchers whose work involves quantum optics solid state spectroscopy and its applications **Maximum Entropy and Bayesian Methods** Ali Mohammad-Djafari, G. Demoment, 2013-03-14 The Twelfth International Workshop on Maximum Entropy and Bayesian Methods in Sciences and Engineering MaxEnt 92 was held in Paris France at the Centre National de la Recherche Scientifique CNRS July 19-24 1992 It is important to note that since its creation in 1980 by some of the researchers of the physics department at the Wyoming University in Laramie this was the second time that it took place in Europe the first time was in 1988 in Cambridge The two specificities of MaxEnt workshops are their spontaneous and informal characters which give the participants the possibility to discuss easily and to make very fruitful scientific and friendship relations among each others This year's organizers had fixed two main objectives i to have more participants from the European countries and ii to give special interest to maximum entropy and Bayesian methods in signal and image processing We are happy to see that we achieved these objectives i we had about 100 participants with more than 50 per

cent from the European countries if we received many papers in the signal and image processing subjects and we could dedicate a full day of the workshop to the image modelling restoration and reconstruction problems

Maximum Entropy and Bayesian Methods Garching, Germany 1998 Wolfgang von der Linden, Volker Dose, Rainer Fischer, Roland Preuss, 1999-07-31 In 1978 Edwin T Jaynes and Myron Tribus initiated a series of workshops to exchange ideas and recent developments in technical aspects and applications of Bayesian probability theory The first workshop was held at the University of Wyoming in 1981 organized by C R Smith and W T Grandy Due to its success the workshop was held annually during the last 18 years Over the years the emphasis of the workshop shifted gradually from fundamental concepts of Bayesian probability theory to increasingly realistic and challenging applications The 18th international workshop on Maximum Entropy and Bayesian Methods was held in Garching Munich Germany 27-31 July 1998 Opening lectures by G Larry Bretthorst and by Myron Tribus were dedicated to one of the pioneers of Bayesian probability theory who died on the 30 of April 1998 Edwin Thompson Jaynes Jaynes revealed and advocated the correct meaning of probability as the state of knowledge rather than a physical property This interpretation allowed him to unravel longstanding mysteries and paradoxes Bayesian probability theory the logic of science as E T Jaynes called it provides the framework to make the best possible scientific inference given all available experimental and theoretical information We gratefully acknowledge the efforts of Tribus and Bretthorst in commemorating the outstanding contributions of E T Jaynes to the development of probability theory

Maximum Entropy and Bayesian Methods C.R. Smith, G. Erickson, Paul O. Neudorfer, 2013-06-29 Bayesian probability theory and maximum entropy methods are at the core of a new view of scientific inference These new ideas along with the revolution in computational methods afforded by modern computers allow astronomers electrical engineers image processors of any type NMR chemists and physicists and anyone at all who has to deal with incomplete and noisy data to take advantage of methods that in the past have been applied only in some areas of theoretical physics This volume records the Proceedings of Eleventh Annual Maximum Entropy Workshop held at Seattle University in June 1991 These workshops have been the focus of a group of researchers from many different fields and this diversity is evident in this volume There are tutorial papers theoretical papers and applications in a very wide variety of fields Almost any instance of dealing with incomplete and noisy data can be usefully treated by these methods and many areas of theoretical research are being enhanced by the thoughtful application of Bayes theorem The contributions contained in this volume present a state of the art review that will be influential and useful for many years to come

Quantum Optics and Fundamentals of Physics Jan Perina, Z. Hradil, B. Jurco, 2012-12-06 In last years increasing attention has been again devoted to interpretations of quantum theory In the same time interesting quantum optical experiments have been performed using nonlinear optical processes in particular frequency down conversion which provided new information about nature of a photon on the basis of interference and correlation coincidence phenomena Such single photon and twin photon effects of quantum optics provide

new point of view of interpretations of quantum theory and new tests of its principles The purpose of this book is to discuss these questions To follow this goal we give brief reviews of principles of quantum theory and of quantum theory of measurement As a fundamental theoretical tool the coherent state technique is adopted based on a general algebraic treatment including the description of interaction of radiation and matter Typical quantum behaviour of physical systems is exhibited by nonclassical optical phenomena which can be examined using photon interferences and correlations These phenomena are closely related to violation of various classical inequalities and Bell's inequalities The most important part of this book discusses quantum optical experiments supporting quantum theory This book may be considered as a continuation of previous monographs by one of the authors on Coherence of Light Van Nostrand Reinhold London 1972 second edition D Reidel Dordrecht 1985 and on Quantum Statistics of Linear and Nonlinear Optical Phenomena D Reidel Dordrecht 1984 second edition Kluwer Dordrecht 1991 which may serve as a preparation for reading this book

Quantum Foundations Pedro W. Lamberti, Gustavo M. Bosyk, Sebastian Fortin, Federico Holik, 2019-04-02 Since its conception 90 years ago the quantum uncertainty principle introduced by Werner Heisenberg lies behind most important features of quantum physics and its implications have an impact that goes far beyond the physics community This book focuses on the quantum uncertainty principle providing an up to date examination of recent developments of its applications in quantum information theory The book brings together several renowned experts working in the foundations of quantum mechanics and quantum information theory The authors provide different approaches to the study of uncertainty relations and other fundamental aspects of the quantum formalism Topics addressed include entanglement and Bell inequalities the application of entropic information measures to the study of uncertainty inequalities the characterization of deep learning networks in the context of adiabatic quantum computation and the study of general properties of the set of quantum states The content of this book will surely benefit both experienced and new researchers specializing in quantum information theory and the foundations of quantum mechanics

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 mathematical 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

Quantum Geometry Margaret Prugovecki, 2013-03-14 This monograph presents a review and analysis of the main mathematical physical and epistemological 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

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 Fi In a 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 aU 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

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 rntiz 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

Clifford Algebras and Their Application in Mathematical Physics Volker Dietrich,Klaus Habetha,Gerhard Jank,2012-12-06 Clifford Algebras continues to be a fast growing discipline with ever increasing applications in many scientific fields This volume contains the lectures given at the Fourth Conference on Clifford Algebras and their Applications in Mathematical Physics held at RWTH Aachen in May 1996 The papers represent an excellent survey of the newest developments around Clifford Analysis and its applications to theoretical physics Audience This book should appeal to physicists and mathematicians working in areas involving functions of complex variables associative rings and algebras integral transforms operational calculus partial differential equations and the mathematics of physics

Beyond the Einstein Addition Law and its Gyroscopic Thomas Precession Abraham A. Ungar,2012-12-06 I cannot define coincidence in mathematics But 1 shall argue that coincidence can always be elevated or organized into a superstructure which perfonns a unification along the coincidental elements The existence of a coincidence is strong evidence for the existence of a covering theory Philip 1 Davis Dav81 Alluding to the Thomas gyration this book presents the Theory of gy rogroups and gyrovector spaces taking the reader to the immensity of hyper bolic geometry that lies beyond the Einstein special theory of relativity Soon after its introduction by Einstein in 1905 Ein05 special relativity theory as named by Einstein ten years later became overshadowed by the ap pearance of general relativity Subsequently the exposition of special relativity followed the lines laid down by Minkowski in which the role of hyperbolic ge ometry is not emphasized This can doubtlessly be explained by the strangeness and unfamiliarity of hyperbolic geometry Bar98 The aim of this book is to reverse the trend of neglecting the role of hy perbolic geometry in the special theory of relativity initiated by Minkowski by emphasizing the central role that hyperbolic geometry plays in the theory

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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Introduction

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