

# **Quantum Logic**

Dov M. Gabbay, Franz Guenthner

#### **Quantum Logic:**

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 Ouantum Logic Peter Mittelstaedt, 2012-12-06 In 1936 G Birkhoff and J v Neumann published an article with the title The logic of quantum mechanics In this paper the authors demonstrated that in quantum mechanics the most simple observables which correspond to yes no propositions about a quantum physical system constitute an algebraic structure the most important proper ties of which are given by an orthocomplemented and guasimodular lattice Lg Furthermore this lattice of guantum mechanical propositions has from a formal point of view many similarities with a Boolean lattice L8 which is known to be the lattice of classical propositional logic Therefore one could conjecture that due to the algebraic structure of quantum mechanical observables a logical calculus Q of quantum mechanical propositions is established which is slightly different from the calculus L of classical propositional logic but which is applicable to all quantum mechanical propositions C F v Weizsacker 1955 This calculus has sometimes been called quan tum logic However the statement that propositions about quantum physical systems are governed by the laws of quantum logic which differ from ordinary classical logic and which are based on the empirically well established quantum theory is exposed to two serious objections a Logic is a theory which deals with those relationships between various propositions that are valid independent of the content of the respective propositions. Thus the validity of logical relationships is not restricted to a special type of proposition e g to propositions about classical physical systems Quantum Logic Karl Svozil,1998-09-01 Quantum Logic deals with the foundations of quantum mechanics and related to it the behaviour of finite discrete deterministic systems The quantum logical approach is particularly suitable for the investigation and exclusion of certain hidden parameter models of quantum mechanics Conversely it can be used to embed quantum universes into classical ones It is also highly relevant for the characterization of finite automation This book has been written with a broad readership in mind Great care has been given to the motivation of the concepts and to the explicit and detailed discussions of Current Issues in Quantum Logic Enrico G. Beltrametti, Bas C. van Fraassen, 2012-12-06 These are the examples

proceedings of the Workshop on Quantum Logic held in Erice Sicily December 2 9 1979 at the Ettore Hajorana Centre for Scientific Culture A conference of this sort was originally proposed by Giuliano Toraldo di Francia who suggested the idea to Antonino Zichichi and thus laid the foundation for the Workshop To both of them we express our appreciation and thanks also on behalf of the other participants for having made this conference possible There were approximately fifty participants their names and institutions are listed in the text Quantum logic which has now a history of some forty or more years has seen remarkable growth during the sixties and seventies The papers in the present volume presuppose by and large some acquaintance with the elements of the subject These may be found in the well known books by I H Jauch Foundations of Quantum Hechanics Reading 1968 V S Varadarajan Geometry of Quantum Theory Princeton 1968 and C Piron Foundations of Quantum Theory New York 1976 The initial program for the conference listed about twenty five invited papers But in the context of a very active and qualified attendance other contributions were offered This volume contains all of them The program listed six main topics I Classification or different areas of quantum logic and open problems II Comparison and unification of different approaches to quantum theories problems of interpretation III Formal quantum logic axiomatics IV Hodal interpretations of quantum logic v vi FOREWORD V Quantum set theory The Logic of Quantum Mechanics: Volume 15 Enrico G. Beltrametti, Gianni Cassinelli, 2010-12-09 This volume examines the logic theory and mathematics of quantum Handbook of Quantum Logic and Kurt Engesser, Dov M. Gabbay, Daniel mechanics in a clear and thorough way Lehmann, 2007 Since its inception in the famous 1936 paper by Birkhoff and von Neumann entitled The logic of quantum mechanics quantum logic i e the logical investigation of quantum mechanics has undergone an enormous development Various schools of thought and approaches have emerged and there are a variety of technical results Quantum logic is a heterogeneous field of research ranging from investigations which may be termed logical in the traditional sense to studies focusing on structures which are on the border between algebra and logic For the latter structures the term quantum structures is appropriate The chapters of this Handbook which are authored by the most eminent scholars in the field constitute a comprehensive presentation of the main schools approaches and results in the field of quantum logic and quantum structures Much of the material presented is of recent origin representing the frontier of the subject The present volume focuses on quantum structures Among the structures studied extensively in this volume are just to name a few Hilbert lattices D posets effect algebras MV algebras partially ordered Abelian groups and those structures underlying quantum probability Written by eminent scholars in the field of logic A comprehensive presentation of the theory approaches and results in the field of quantum logic Volume focuses on quantum structures *Ouantum Computation and Logic Maria* Luisa Dalla Chiara, Roberto Giuntini, Roberto Leporini, Giuseppe Sergioli, 2018-12-10 This book provides a general survey of the main concepts questions and results that have been developed in the recent interactions between quantum information quantum computation and logic Divided into 10 chapters the books starts with an introduction of the main concepts of the

quantum theoretic formalism used in quantum information It then gives a synthetic presentation of the main mathematical characters of the quantum computational game qubits quregisters mixtures of quregisters quantum logical gates Next the book investigates the puzzling entanglement phenomena and logically analyses the Einstein Podolsky Rosen paradox and introduces the reader to quantum computational logics and new forms of quantum logic The middle chapters investigate the possibility of a quantum computational semantics for a language that can express sentences like Alice knows that everybody knows that she is pretty explore the mathematical concept of quantum Turing machine and illustrate some characteristic examples that arise in the framework of musical languages The book concludes with an analysis of recent discussions and contains a Mathematical Appendix which is a survey of the definitions of all main mathematical concepts used in the book

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 Ouantum Probability - Quantum Logic Itamar Pitowsky, 2014-01-15 Logic and Algebraic Structures in Quantum Computing Jennifer Chubb, Ali Eskandarian, Valentina Harizanov, 2016-02-26 Arising from a special session held at the 2010 North American Annual Meeting of the Association for Symbolic Logic this volume is an international cross disciplinary collaboration with contributions from leading experts exploring connections across their respective fields Themes range from philosophical examination of the foundations of physics and quantum logic to exploitations of the methods and structures of operator theory category theory and knot theory in an effort to gain insight into the fundamental questions in quantum theory and logic The book will appeal to researchers and students working in related fields including logicians mathematicians computer scientists and physicists A brief introduction provides essential background on quantum mechanics and category theory which together with a thematic selection of articles may also serve as the basic material for a graduate course or seminar Current Research in Operational Quantum Logic Bob Coecke, David Moore, Alexander

Wilce, 2000-03-31 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 Physics, Fuzzy Sets and Logic Jarosław Pykacz, 2015-06-20 This Brief presents steps towards elaborating a new interpretation of quantum mechanics based on a specific version of ukasiewicz infinite valued logic It begins with a short survey of main interpretations of quantum mechanics already proposed as well as various models of many valued logics and previous attempts to apply them for the description of quantum phenomena The prospective many valued interpretation of quantum mechanics is soundly based on a theorem concerning the isomorphic representation of Birkhoff von Neumann quantum logic in the form of a special ukasiewicz infinite valued logic endowed with partially defined conjunctions and disjunctions Quantum Computing Hafiz Md. Hasan Babu, 2023 Quantum computing is an emerging technology with the potential to have a significant impact on science and technology Organised into four parts this comprehensive second edition covers topics such as the basic concepts of quantum computing alongside quantum implementation of different circuits the fault tolerant concepts of quantum computing the concept of QCA alongside the design processes of different QCA circuits and an overview of QCA fault tolerant circuits and their design procedures In addition to updates to first edition chapters to reflect developments in recent years this new edition sees the inclusion of problems to every chapter and eight new chapters This book will be a great help for quantum computing researchers faculty members and students who can develop a working understanding of circuit based quantum Language, Logic and Method Robert S. Cohen, Marx W. Wartofsky, 2012-12-06 Fundamental problems of computing the uses of formal techniques and of natural and instrumental practices have been raised again and again these past two decades in many quarters and from varying viewpoints We have brought a number of quite basic studies of these issues together in this volume not linked con ceptually nor by any rigorously defined problematic but rather simply some of the most interesting and even provocative of recent research accomplish ments Most of these papers are derived from the Boston Colloquium for the Philosophy of Science during 1973 80 the two exceptions being those of Karel Berka on scales of measurement and A A Zinov ev on a non traditional theory of quantifiers Just how intriguing these results or conjectures seem to us may be seen from some brief quotations 1 Judson Webb the abstract machine concept has many of the appropriate kinds of properties for modelling living reproducing rule following self reflecting accident prone and lucky creatures the a priori logical results relevant to the abstract machine concept above all Godel s could not conceivably have turned out any better for the mechanist 2 M L Dalla Chiara modal interpretation of quantum logic shows clearly that it possesses a logical meaning which is quite independent of quantum mechanics 3 Isaac Levi as against Peirce and Popper infallibilism is con sistent with corrigibilism and a view which respects avoidance of error is an important desideratum for Quanta, Logic And Spacetime: Variations On Finkelstein's Quantum Relativity Stephen A science Selesnick, 1998-03-12 In this highly interesting monograph a brief account of Finkelstein's approach to quantum theory and some of its ramifications is given Specifically his suggestion that some sort of quantum set like structure should underlie our macroscopic perception of spacetime is developed to the point where a fair slice of fundamental physics for a massless world may be formally derived in an elementary fashion from the ground up In detail a model of what Finkelstein has dubbed a quantum net in conjunction with a carefully and extensively articulated correspondence principle gives rise to the standard Lagrangians for massless Dirac fermions general relativity and Yang Mills fields for the gauge groups U 1 x SU 2 and SU 3 These Lagrangians emerge replete with Feynman gauge fixing terms and ghost fields and a chiral breaking mechanism in the case of SU 2 The results are interpreted in the light of the Standard Model **Logic and Probability in Quantum Mechanics** Patrick Suppes, 2013-11-11 During the academic years 1972 1973 and 1973 1974 an intensive sem in ar on the foundations of quantum mechanics met at Stanford on a regular basis The extensive exploration of ideas in the seminar led to the org ization of a double issue of Synthese concerned with the foundations of quantum mechanics especially with the role of logic and probability in quantum meChanics About half of the articles in the volume grew out of this seminar The remaining articles have been so licited explicitly from individuals who are actively working in the foun dations of quantum mechanics Seventeen of the twenty one articles appeared in Volume 29 of Syn these Four additional articles and a bibliography on the history and philosophy of quantum mechanics have been added to the present volume In particular the articles by Bub Demopoulos and Lande as well as the second article by Zanotti and myself appear for the first time in the present volume In preparing the articles for publication I am much indebted to Mrs Lillian O Toole Mrs Dianne Kanerva and Mrs Marguerite Shaw for their extensive assistance An Introduction to Hilbert Space and Quantum Logic David W. Cohen, 2012-12-06 Historically nonclassical physics developed in three stages First came a collection of ad hoc assumptions and then a cookbook of equations known as quantum mechanics The equations and their philosophical underpinnings were

then collected into a model based on the mathematics of Hilbert space From the Hilbert space model came the abstaction of quantum logics This book explores all three stages but not in historical order Instead in an effort to illustrate how physics and abstract mathematics influence each other we hop back and forth between a purely mathematical development of Hilbert space and a physically motivated definition of a logic partially linking the two throughout and then bringing them together at the deepest level in the last two chapters This book should be accessible to undergraduate and beginning graduate students in both mathematics and physics The only strict prerequisites are calculus and linear algebra but the level of mathematical sophistication assumes at least one or two intermediate courses for example in mathematical analysis or advanced calculus No background in physics is assumed Handbook of Philosophical Logic Dov M. Gabbay, Franz Guenthner, 2013-03-14 such questions for centuries unrestricted by the capabilities of any hard ware The principles governing the interaction of several processes for example are abstract an similar to principles governing the cooperation of two large organisation A detailed rule based effective but rigid bureaucracy is very much similar to a complex computer program handling and manipulating data My guess is that the principles underlying one are very much the same as those underlying the other I believe the day is not far away in the future when the computer scientist will wake up one morning with the realisation that he is actually a kind of formal philosopher The projected number of volumes for this Handbook is about 18 The subject has evolved and its areas have become interrelated to such an extent that it no longer makes sense to dedicate volumes to topics However the volumes do follow some natural groupings of chapters I would like to thank our authors are readers for their contributions and their commitment in making this Handbook a success Thanks also to our publication administrator Mrs J Spurr for her usual dedication and excellence and to Kluwer Academic Publishers for their continuing support for the Handbook

Quantum Logic is the Foundation of Mathematics, Physics, and Computer Science Conrad Kuck,1989-01-01 **Particles and Paradoxes** Peter Gibbins,1987-09-25 Quantum theory is our deepest theory of the nature of matter It is a theory that notoriously produces results which challenge the laws of classical logic and suggests that the physical world is illogical This book gives a critical review of work on the foundations of quantum mechanics at a level accessible to non experts Assuming his readers have some background in mathematics and physics Peter Gibbins focuses on the questions of whether the results of quantum theory require us to abandon classical logic and whether quantum logic can resolve the paradoxes produced by quantum mechanics He argues that quantum logic does not dispose of the problems faced by classical logic that no reasonable interpretation of quantum mechanics in terms of hidden variables can be found and that after all these years quantum mechanics remains a mystery to us Particles and Paradoxes provides a much needed and valuable introduction to the philosophy of quantum mechanics and at the same time an example of just what it is to do the philosophy of physics

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#### **Quantum Logic Introduction**

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