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# QUANTUM LOGIC



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# Quantum Logic Synthese Library Series 126 Vol 126

**Emily Grosholz, Herbert Breger**



## **Quantum Logic Synthese Library Series 126 Vol 126:**

**Quantum Measurement** Paul Busch, Pekka Lahti, Juha-Pekka Pellonpää, Kari Ylinen, 2016-08-23 This is a book about the Hilbert space formulation of quantum mechanics and its measurement theory It contains a synopsis of what became of the Mathematical Foundations of Quantum Mechanics since von Neumann's classic treatise with this title Fundamental non classical features of quantum mechanics indeterminacy and incompatibility of observables unavoidable measurement disturbance entanglement nonlocality are explicated and analysed using the tools of operational quantum theory The book is divided into four parts 1 Mathematics provides a systematic exposition of the Hilbert space and operator theoretic tools and relevant measure and integration theory leading to the Naimark and Stinespring dilation theorems 2 Elements develops the basic concepts of quantum mechanics and measurement theory with a focus on the notion of approximate joint measurability 3 Realisations offers in depth studies of the fundamental observables of quantum mechanics and some of their measurement implementations and 4 Foundations discusses a selection of foundational topics quantum classical contrast Bell nonlocality measurement limitations measurement problem operational axioms from a measurement theoretic perspective The book is addressed to physicists mathematicians and philosophers of physics with an interest in the mathematical and conceptual foundations of quantum physics specifically from the perspective of measurement theory *Quantum 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 properties of which are given by an orthocomplemented and quasimodular lattice  $L_q$  Furthermore this lattice of quantum mechanical propositions has from a formal point of view many similarities with a Boolean lattice  $L_2$  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 quantum 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 **Logic and Scientific Methods** Maria Luisa Dalla Chiara, Kees Doets, Daniele Mundici, Johan van Benthem, 1996-12-31 This is the first of two volumes comprising the papers submitted for publication by the invited participants to the Tenth International Congress of Logic Methodology and Philosophy of Science held in Florence August

1995 The Congress was held under the auspices of the International Union of History and Philosophy of Science Division of Logic Methodology and Philosophy of Science The invited lectures published in the two volumes demonstrate much of what goes on in the fields of the Congress and give the state of the art of current research The two volumes cover the traditional subdisciplines of mathematical logic and philosophical logic as well as their interfaces with computer science linguistics and philosophy Philosophy of science is broadly represented too including general issues of natural sciences social sciences and humanities The papers in Volume One are concerned with logic mathematical logic the philosophy of logic and mathematics and computer science      **Quantum Theory and Gravitation** A. R. Marlow, 1980 Quantum Theory and Gravitation

*Reuniting the Antipodes - Constructive and Nonstandard Views of the Continuum* Peter Schuster, Ulrich Berger, Horst Osswald, 2013-03-14 At first glance Robinson's original form of nonstandard analysis appears nonconstructive in essence because it makes a rather unrestricted use of classical logic and set theory and in particular of the axiom of choice Recent developments however have given rise to the hope that the distance between constructive and nonstandard mathematics is actually much smaller than it appears So the time was ripe for the first meeting dedicated simultaneously to both ways of doing mathematics and to the current and future reunion of these seeming opposites Consisting of peer reviewed research and survey articles written on the occasion of such an event this volume offers views of the continuum from various standpoints Including historical and philosophical issues the topics of the contributions range from the foundations the practice and the applications of constructive and nonstandard mathematics to the interplay of these areas and the development of a unified theory      *Intensionality and Truth* Philip Hugly, C. Sayward, 2012-12-06 Prior's view on

intensionality and truth is based on the principle that sentences never name that what sentences say cannot be otherwise signified that a sentence says what it says whatever the type of its occurrence and that sentential quantification is neither eliminable substitutional nor referential The text defends each of these principles      **Talking Wolves** A. Biletzki, 2013-03-14 Talking Wolves advances an analysis of Hobbes which takes language seriously as seriously as Hobbes took it It presents a reading of Hobbes's view of society at large and political society in particular through a comprehensive discussion based on and intimately linked to his philosophy of language This philosophy in turn is seen in a new light as being a pragmatic theory of language in use language in action      **Reference, Truth and Conceptual Schemes** G. Forrai, 2013-03-14 1

**HISTORICAL BACKGROUND** The purpose of the book is to develop internal realism the metaphysical epistemological doctrine initiated by Hilary Putnam Reason Truth and History Introduction Many Faces In doing so I shall rely sometimes quite heavily on the notion of conceptual scheme I shall use the notion in a somewhat idiosyncratic way which however has some affinities with the ways the notion has been used during its history So I shall start by sketching the history of the notion This will provide some background and it will also give opportunity to raise some of the most important problems I will have to solve in the later chapters The story starts with Kant Kant thought that the world as we know it the world of tables chairs

and hippopotami is constituted in part by the human mind His central argument relied on an analysis of space and time and presupposed his famous doctrine that knowledge cannot extend beyond all possible experience It is a central property of experience he claimed that it is structured spatially and temporally However for various reasons space and time cannot be features of the world as it is independently of our experience So he concluded that they must be the forms of human sensibility i e necessary ingredients of the way things appear to our senses

**Scientific Progress** Craig Dilworth, 2007-09-18 Kuhn and Feyerabend formulated the problem Dilworth provides the solution In this highly original and insightful book Craig Dilworth answers all the questions raised by the incommensurability thesis Logical empiricism cannot account for theory conflict Popperianism cannot account for how one theory is a progression beyond another Dilworth's Perspectivist conception of science does both While remaining within the bounds of classical philosophy of science Dilworth does away with the logicism of his competitors On the Perspectivist view theory conflict is not contradiction and theory superiority does not consist in deductive subsumption or set theoretic inclusion Here the relation between theories is analogous to the application of individual concepts and the question of theory superiority becomes one of relative applicability In this way Dilworth succeeds in providing a conception of science in which scientific progress is based on both rational and empirical considerations

*Logic, Meaning and Computation* C. Anthony Anderson, Michael Zelëny, 2012-12-06 This volume began as a remembrance of Alonzo Church while he was still with us and is now finally complete It contains papers by many well known scholars most of whom have been directly influenced by Church's own work Often the emphasis is on foundational issues in logic mathematics computation and philosophy as was the case with Church's contributions now universally recognized as having been of profound fundamental significance in those areas The volume will be of interest to logicians computer scientists philosophers and linguists The contributions concern classical first order logic higher order logic non classical theories of implication set theories with universal sets the logical and semantical paradoxes the lambda calculus especially as it is used in computation philosophical issues about meaning and ontology in the abstract sciences and in natural language and much else The material will be accessible to specialists in these areas and to advanced graduate students in the respective fields

**Philosophy and Logic In Search of the Polish Tradition** Jaakko Hintikka, Tadeusz Czarnecki, K. Kijania-Placek, Tomasz Placek, Artur Rojszszczak, 2013-06-29 On the occasion of his sixtieth birthday we dedicate this volume to Jan Wołeriski's our teacher our colleague our friend Both of us are particularly indebted to Jan not only with regards to professional matters but some private ones as well Hence we hope that he forgives us an occasional lapse into fondness and affection That said may the list of his personal merits remain shrouded in mystery rather than unveil them we open here by appraising Jan's presence from a broader perspective To note that Jan was not always a part of our lives would not evoke surprise However to imagine the Institute of Philosophy on Grodzka Street or Krakow philosophy without him in it would be a harder task at least for us Nonetheless we do remember the days when he was commuting to Krakow as a guest

lecturer Is there anything about those days which particularly comes to mind To shed light on the story which follows one must begin by stating that the early 1980s when we were studying philosophy was not a bright period The great masters of Krakow philosophy Ingarden Mehlberg Zawirski or Damska were either dead or for political reasons kept silent The years following Martial Law 1981 1983 were intellectually very blighted and barren In the midst of all this we were attending Jan s course on general methodology The British Library General Catalogue of Printed Books 1976 to 1982 British Library,1983 Nominalism and Contemporary Nominalism M. Gosselin,2012-12-06 Though the subject of this work nominalism and contemporary nominalism is philosophical it cannot be fully treated without relating it to data gathered from a great variety of domains such as biology and more especially ethology psychology linguistics and neurobiology The source of inspiration has been an academic work I wrote in order to obtain a postdoctoral degree which is called in Belgium an Aggregaat voor het Hoger Onderwijs comparable to a Habilitation in Germany I want to thank the National Fund of Scientific Research which accorded me several grants and thereby enabled me to write the academic work in the first place and thereafter this book I also want to thank Prof SJ Doorman Technical University of Delft and Prof G Nuchelmans University of Leiden who were members of the jury of the Aggregaatsthesis presented to the Free University of Brussels in 1981 and who by their criticisms and suggestions encouraged me to write the present book the core of which is constituted by the general ideas then formulated I am further obliged to Mr X the referee who was asked by Jaakko Hintikka to read my work and who made a series of constructive remarks and recommendations My colleague Marc De Mey University of Ghent helped me greatly with the more formal aspects of my work and spent too much of his valuable time and energy to enable me to deliver a presentable copy All remaining shortcomings are entirely my responsibility I asked Prof Patrick Suppes: Scientific Philosopher P. Humphreys,1994-09-30 Patrick Suppes is a philosopher and scientist whose contributions range over probability and statistics mathematical and experimental psychology the foundations of physics education theory the philosophy of language measurement theory and the philosophy of science He has also been a pioneer in the area of computer assisted instruction In each of these areas Suppes has provided seminal ideas that in some cases led to shaping the direction of research in the field The papers contained in this collection were commissioned with the mandate of advancing research in their respective fields rather than retrospectively surveying the contributions that Suppes himself has made The authors form an interesting mixture of researchers in both formal philosophy of science and science itself all of whom have been inspired by his ideas To maintain the spirit of constructive dialogue that characterizes Suppes s intellectual style he has written individual responses to each article In Volume 1 Probability and Probabilistic Causality nineteen distinguished philosophers and scientists focus their attention on probabilistic issues In Part I the contributors explore axiomatic representations of probability theory including qualitative and interval valued probabilities as well as traditional point valued probabilities Belief structures and the dynamics of belief are also treated in detail In Part II the rapidly growing field of

probabilistic causation is assessed from both formal and empirical viewpoints For probability theorists statisticians economists philosophers of science psychologists and those interested in the foundations of mathematical social science In Volume 2 Philosophy of Physics Theory Structure and Measurement Theory fifteen distinguished philosophers and scientists cover a wide variety of topics Part III covers issues in quantum theory geometry classical mechanics and computational physics Part IV explores Suppes's well known set theoretic account of scientific theories which has served him well throughout his career Suppes's contributions to measurement theory have been widely used in mathematical psychology and elsewhere and this material is the subject of Part V For physicists logicians workers in mathematical social science and philosophers of science In Volume 3 Philosophy of Language and Logic Learning and Action Theory fourteen distinguished philosophers and scientists explore issues in the philosophy of language logic and philosophical psychology Suppes's suggestions that quantum theory requires a rethinking of classical logic form a particularly sharp account of that controversial thesis and Part VI deals with this issue together with topics in the philosophy of language and logic including relational grammars and anaphora Part VII deals with issues in psychology action theory and robotics while Part VIII concludes with a general survey of Suppes's views in the philosophy of science A comprehensive chronological and topical bibliography of Suppes's writings is included in this volume For philosophers of language theoretical linguists logicians workers in mathematical social sciences and philosophers of science

*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 Chapter 1 Classical logic classical probability and quantum mechanics Samson Abramsky Chapter 2 Why Scientific Realists Should Reject the Second Dogma of Quantum Mechanic Valia Allori Chapter 3 Unscrambling Subjective and Epistemic Probabilities Guido Bacciagaluppi Chapter 4 Wigner's Friend as a Rational Agent Veronika Baumann aslav Brukner Chapter 5 Pitowsky's Epistemic Interpretation of Quantum Mechanics and the PBR Theorem Yemima Ben Menahem Chapter 6 On the Mathematical Constitution and Explanation of Physical Facts Joseph Berkovitz Chapter 7 Everettian probabilities the Deutsch Wallace theorem and the Principal Principle Harvey R Brown Gal Ben Porath Chapter 8 Two Dogmas Redu Jeffrey Bub

Chapter 9 Physical Computability Theses B Jack Copeland Oron Shagrir Chapter 10 Agents in Healey's Pragmatist Quantum Theory A Comparison with Pitowsky's Approach to Quantum Mechanics Mauro Dorato Chapter 11 Quantum Mechanics As a Theory of Observables and States and Thereby As a Theory of Probability John Earman Laura Ruetsche Chapter 12 The Measurement Problem and two Dogmas about Quantum Mechanic Laura Felline Chapter 13 There Is More Than One Way to Skin a Cat Quantum Information Principles In a Finite World Amit Hagar Chapter 14 Is Quantum Mechanics a New Theory of Probability Richard Healey Chapter 15 Quantum Mechanics as a Theory of Probability Meir Hemmo Orly Shenker Chapter 16 On the Three Types of Bell's Inequalities Gbor Hofer Szab Chapter 17 On the Descriptive Power of Probability Logic Ehud Hrushovski Chapter 18 The Argument against Quantum Computers Gil Kalai Chapter 19 Why a Relativistic Quantum Mechanical World Must be Indeterministic Avi Levy Meir Hemmo Chapter 20 Subjectivists about Quantum Probabilities Should be Realists about Quantum States Wayne C Myrvold Chapter 21 The Relativistic Einstein Podolsky Rosen Argument Michael Redhead Chapter 22 What price statistical independence How Einstein missed the photon Simon Saunders Chapter 23 How Maximally Contextual is Quantum Mechanics Andrew W Simmons Chapter 24 Roots and Re Sources of Value In Definiteness Versus Contextuality Karl Svozil Chapter 25 Schrödinger's Reaction to the EPR Paper Jos Uffink Chapter 26 Derivations of the Born Rule Lev Vaidman Chapter 27 Dynamical States and the Conventionality of Non Classicality Alexander Wilce

Directions, 1980 *Collected Papers of Stig Kanger with Essays on his Life and Work Volume II* Ghita Holmström-Hintikka, Sten Lindström, R. Sliwinski, 2012-12-06 Stig Kanger 1924-1988 made important contributions to logic and formal philosophy Kanger's dissertation *Provability in Logic* 1957 contained significant results in proof theory as well as the first fully worked out model theoretic interpretation of quantified modal logic It is generally accepted nowadays that Kanger was one of the originators of possible worlds semantics for modal logic Kanger's most original achievements were in the areas of general proof theory the semantics of modal and deontic logic and the logical analysis of the concept of rights He also contributed to action theory preference logic and the theory of measurement This is the first of two volumes dedicated to the work of Stig Kanger The present volume is a complete collection of Kanger's philosophical papers The second volume contains critical essays on Kanger's work as well as biographical essays on Kanger written by colleagues and friends

**The Growth of Mathematical Knowledge** Emily Grosholz, Herbert Breger, 2013-04-17 Mathematics has stood as a bridge between the Humanities and the Sciences since the days of classical antiquity For Plato mathematics was evidence of Being in the midst of Becoming garden variety evidence apparent even to small children and the unphilosophical and therefore of the highest educational significance In the great central similes of *The Republic* it is the touchstone of intelligibility for discourse and in the *Timaeus* it provides in an oddly literal sense the framework of nature insuring the intelligibility of the material world For Descartes mathematical ideas had a clarity and distinctness akin to the idea of God as the fifth of the *Meditations* makes especially clear Cartesian mathematical constructions as well as objects envisioned by the soul in the



Principles the work of the physicist who provides a quantified account of the machines of nature hovers between description and constitution For Kant mathematics reveals the possibility of universal and necessary knowledge that is neither the logical unpacking of concepts nor the record of perceptual experience In the Critique of Pure Reason mathematics is one of the transcendental instruments the human mind uses to apprehend nature and by apprehending to construct it under the universal and necessary laws of Newtonian mechanics

The Dawn of Cognitive Science L. Albertazzi, 2013-04-17 Current debate in cognitive science from robotics to analysis of vision deals with problems like the perception of form the structure and formation of mental images and their modelling the ecological development of artificial intelligence and cognitive analysis of natural language It focuses in particular on the presence of a hierarchy of intellectual constructions in different formats of representation These diverse approaches which share a common assumption of the inner nature of representation call for a new epistemology even a new psychophysics based on a theory of reference which is intrinsically cognitive As a contribution to contemporary research the reading presents the core of theories developed in Central Europe between the late nineteenth and early twentieth centuries by philosophers physicists psychologists and semanticists who shared a dynamic approach and a pronounced concern with problems of interaction and dependence These theories offer innovative solutions to some of the epistemological and philosophical problems currently at the centre of debate like part whole theory of relations and conceptual and linguistic categorization

**The Logic of Time** Johan van Benthem, 2013-03-09 The subject of Time has a wide intellectual appeal across different disciplines This has shown in the variety of reactions received from readers of the first edition of the present Book Many have reacted to issues raised in its philosophical discussions while some have even solved a number of the open technical questions raised in the logical elaboration of the latter These results will be recorded below at a more convenient place In the seven years after the first publication there have been some noticeable newer developments in the logical study of Time and temporal expressions As far as Temporal Logic proper is concerned it seems fair to say that these amount to an increase in coverage and sophistication rather than further break through innovation In fact perhaps the most significant sources of new activity have been the applied areas of Linguistics and Computer Science including Artificial Intelligence where many intriguing new ideas have appeared presenting further challenges to temporal logic Now since this Book has a rather tight composition it would have been difficult to interpolate this new material without endangering intelligibility

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