

Reasoning in Quantum Theory

**Sharp and Unsharp
Quantum Logics**

by

**M. Dalla Chiara, R. Giuntini
and R. Greechie**

Reasoning In Quantum Theory Sharp And Unsharp Quantum Logics

Gregg Jaeger



Reasoning In Quantum Theory Sharp And Unsharp Quantum Logics:

Reasoning in Quantum Theory Maria Luisa Dalla Chiara, Roberto Giuntini, Richard Greechie, 2004-03-31 Is quantum logic really logic This book argues for a positive answer to this question once and for all There are many quantum logics and their structures are delightfully varied The most radical aspect of quantum reasoning is reflected in unsharp quantum logics a special heterodox branch of fuzzy thinking For the first time the whole story of Quantum Logic is told from its beginnings to the most recent logical investigations of various types of quantum phenomena including quantum computation Reasoning in Quantum Theory is designed for logicians yet amenable to advanced graduate students and researchers of other disciplines

Reasoning in Quantum Theory Maria Luisa Dalla Chiara, Roberto Giuntini, Richard Greechie, 2013-03-09 Is quantum logic really logic This book argues for a positive answer to this question once and for all There are many quantum logics and their structures are delightfully varied The most radical aspect of quantum reasoning is reflected in unsharp quantum logics a special heterodox branch of fuzzy thinking For the first time the whole story of Quantum Logic is told from its beginnings to the most recent logical investigations of various types of quantum phenomena including quantum computation Reasoning in Quantum Theory is designed for logicians yet amenable to advanced graduate students and researchers of other disciplines

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

Dialetheic 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. *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.

Logic, Language, Information, and Computation Leonid Libkin, Ulrich Kohlenbach, Ruy de Queiroz, 2013-08-15 Edited in collaboration with FoLLI the Association of Logic Language and Information this book constitutes the refereed proceedings of the 20th Workshop on Logic Language Information and Communication WoLLIC 2013 held in Darmstadt Germany in August 2013. The 17 contributed papers presented together with 6 invited lectures were carefully reviewed and selected from 30 submissions. The scope of the workshop spans the theoretical and practical aspects of formal logic computing and programming theory and natural language and reasoning. **Rules and Meaning in Quantum Mechanics** Julian D. Toader, 2025-05-30 This book pursues

an investigation at the intersection of philosophy of physics and philosophy of language and offers a critical analysis of rival explanations of the semantic facts of quantum mechanics. The author presents new insights including a reworking of Einstein's incompleteness argument a fresh take on Bohr's correspondence principle and several critiques of recent views in the philosophy of quantum logic. The book will be of interest to scholars and students whose philosophical work concerns language logic or physics. **Probing The Meaning Of Quantum Mechanics: Physical, Philosophical, And Logical Perspectives** Diederik Aerts, Sven Aerts, Christian De Ronde, 2014-03-06 This book provides a new original perspective on

one of the most fascinating and important open questions in science. What is quantum mechanics talking about? Quantum

theory is perhaps our best confirmed physical theory. However in spite of its great empirical effectiveness and the subsequent technological developments that it gave rise to in the 20th century from the interpretation of the periodic table of elements to CD players, holograms and quantum state teleportation, it stands even today without a universally accepted interpretation. The novelty of the book comes from the multiple viewpoints and the original angles taken by a group of young researchers from Europe and South America who gathered for several years under the auspices of the Center Leo Apostel. Each member of the group presented ideas concerning the interpretation of quantum mechanics. We had discussions ranging from the philosophical underpinnings of local realism and holism, information and decision theoretic approaches to quantum theory, all the way to the many worlds interpretation. Strikingly in much the same way as different and indeed incompatible observations are needed to fully describe the physical state of affairs in quantum mechanics, the various interpretations of the theory also seem to shed viable but not necessarily compatible perspectives on different aspects of the same grand framework. The discussions that followed were both technical and lively but perhaps their most remarkable quality was the absence of rigid points of view that unfortunately seems to paralyze so much of the discussion in this area. This book is an expression which can be interesting not only to the specialists but also for the general public attempting to get a grasp on one of the still most fundamental questions of present physics.

Probing The Meaning Of Quantum Mechanics:

Superpositions, Dynamics, Semantics And Identity Diederik Aerts, Christian De Ronde, Hector Freytes, Roberto Giuntini, 2016-07-21. This book provides an interdisciplinary approach to one of the most fascinating and important open questions in science: What is quantum mechanics really talking about? In the last decades quantum mechanics has given rise to a new quantum technological era, a revolution taking place today especially within the field of quantum information processing which goes from quantum teleportation and cryptography to quantum computation. Quantum theory is probably our best confirmed physical theory. However in spite of its great empirical effectiveness it stands today still without a universally accepted physical representation that allows us to understand its relation to the world and reality. The novelty of the book comes from the multiple perspectives put forward by top researchers in quantum mechanics from Europe as well as North and South America, discussing the meaning and structure of the theory of quanta. The book comprises in a balanced manner physical, philosophical, logical and mathematical approaches to quantum mechanics and quantum information. Going from quantum superpositions and entanglement to dynamics and the problem of identity, from quantum logic, computation and quasi set theory to the category approach and teleportation, from realism and empiricism to operationalism and instrumentalism, the book considers from different angles some of the most intriguing questions in the field. From Buenos Aires to Brussels and Cagliari, from Florence to Florianopolis, the interaction between different groups is reflected in the many different articles. This book is interesting not only to the specialists but also to the general public attempting to get a grasp on some of the most fundamental questions of present quantum physics.

Probing The Meaning Of Quantum Mechanics:

Information, Contextuality, Relationalism And Entanglement - Proceedings Of The Ii International Workshop On Quantum Mechanics And Quantum Information. Physical, Philosophical And Logical Approaches Diederik Aerts, Maria Luisa Dalla Chiara, Christian De Ronde, Decio Krause, 2018-11-15 This book provides an interdisciplinary perspective on one of the most fascinating and important open questions in science What is quantum mechanics talking about Quantum theory is perhaps our best confirmed physical theory However despite its great empirical effectiveness and the subsequent technological developments that it gave rise to in the 20th century from the interpretation of the periodic table of elements to CD players holograms and quantum state teleportation it stands even today without a universally accepted interpretation The novelty of the book comes from the multiple viewpoints and subjects investigated by a group of researchers from Europe and North and South America

Quantum International Relations James Der Derian, Alexander Wendt, 2022 The contributors to this volume are motivated by a common apprehension and a common hope The apprehension was first voiced by Einstein who lamented the inability of humanity at the individual and social level to keep up with the increased speed of technological change brought about by the quantum revolution As quantum science and technology fast forward into the 21st century the social sciences remain stuck in classical 19th century ways of thinking Can such a mechanistic model of the mind and society possibly help us manage the fully realized technological potential of the quantum That's where the hope appears that perhaps quantum is not just a physical science but a human science too In *Quantum International Relations* James Der Derian and Alexander Wendt gather rising scholars and leading experts to make the case for quantum approaches to world politics As a fundamental theory of reality and enabler of new technologies quantum now touches everything with the potential to revolutionize how we conduct diplomacy wage war and make wealth Contributors present the core principles of quantum mechanics entanglement uncertainty superposition and the wave function as significant catalysts and superior heuristics for an accelerating quantum future Facing a reality which no longer corresponds to an outdated Newtonian worldview of states as billiard balls individuals as rational actors or power as objective interest Der Derian and Wendt issue an urgent call for a new human science of quantum International Relations At the centenary of the first quantum thought experiment in the 1920s this book offers a diversity of explorations speculations and approaches for understanding geopolitics in the 21st century

Entanglement, Information, and the Interpretation of Quantum Mechanics Gregg Jaeger, 2009-06-12 Entanglement was initially thought by some to be an oddity restricted to the realm of thought experiments However Bell's inequality delimiting local behavior and the experimental demonstration of its violation more than 25 years ago made it entirely clear that non local properties of pure quantum states are more than an intellectual curiosity Entanglement and non locality are now understood to figure prominently in the microphysical world a realm into which technology is rapidly hurtling Information theory is also increasingly recognized by physicists and philosophers as intimately related to the foundations of mechanics The clearest indicator of this relationship is that between quantum information and entanglement To some degree

a deep relationship between information and mechanics in the quantum context was already there to be seen upon the introduction by Max Born and Wolfgang Pauli of the idea that the essence of pure quantum states lies in their provision of probabilities regarding the behavior of quantum systems via what has come to be known as the Born rule The significance of the relationship between mechanics and information became even clearer with Leo Szilard's analysis of James Clerk Maxwell's infamous demon thought experiment Here in addition to examining both entanglement and quantum information and their relationship I endeavor to critically assess the influence of the study of these subjects on the interpretation of quantum theory

The Development of Modern Logic Leila Haaparanta, 2009-06-18 This edited volume presents a comprehensive history of modern logic from the Middle Ages through the end of the twentieth century In addition to a history of symbolic logic the contributors also examine developments in the philosophy of logic and philosophical logic in modern times The book begins with chapters on late medieval developments and logic and philosophy of logic from Humanism to Kant The following chapters focus on the emergence of symbolic logic with special emphasis on the relations between logic and mathematics on the one hand and on logic and philosophy on the other This discussion is completed by a chapter on the themes of judgment and inference from 1837-1936 The volume contains a section on the development of mathematical logic from 1900-1935 followed by a section on main trends in mathematical logic after the 1930s The volume goes on to discuss modal logic from Kant till the late twentieth century and logic and semantics in the twentieth century the philosophy of alternative logics the philosophical aspects of inductive logic the relations between logic and linguistics in the twentieth century the relationship between logic and artificial intelligence and ends with a presentation of the main schools of Indian logic The Development of Modern Logic includes many prominent philosophers from around the world who work in the philosophy and history of mathematics and logic who not only survey developments in a given period or area but also seek to make new contributions to contemporary research in the field It is the first volume to discuss the field with this breadth of coverage and depth and will appeal to scholars and students of logic and its philosophy

Category Theory in Physics, Mathematics, and Philosophy Marek Kuś, Bartłomiej Skowron, 2019-11-11 The contributions gathered here demonstrate how categorical ontology can provide a basis for linking three important basic sciences mathematics physics and philosophy Category theory is a new formal ontology that shifts the main focus from objects to processes The book approaches formal ontology in the original sense put forward by the philosopher Edmund Husserl namely as a science that deals with entities that can be exemplified in all spheres and domains of reality It is a dynamic processual and non-substantial ontology in which all entities can be treated as transformations and in which objects are merely the sources and aims of these transformations Thus in a rather surprising way when employed as a formal ontology category theory can unite seemingly disparate disciplines in contemporary science and the humanities such as physics mathematics and philosophy but also computer and complex systems science

Algebraic Perspectives on Substructural Logics Davide Fazio, Antonio Ledda, Francesco Paoli, 2020-11-07 This volume

presents the state of the art in the algebraic investigation into substructural logics It features papers from the workshop AsubL Algebra Substructural Logics Take 6 Held at the University of Cagliari Italy this event is part of the framework of the Horizon 2020 Project SYSMICS SYntax meets Semantics Methods Interactions and Connections in Substructural logics Substructural logics are usually formulated as Gentzen systems that lack one or more structural rules They have been intensively studied over the past two decades by logicians of various persuasions These researchers include mathematicians philosophers linguists and computer scientists Substructural logics are applicable to the mathematical investigation of such processes as resource conscious reasoning approximate reasoning type theoretical grammar and other focal notions in computer science They also apply to epistemology economics and linguistics The recourse to algebraic methods or better the fecund interplay of algebra and proof theory has proved useful in providing a unifying framework for these investigations The AsubL series of conferences in particular has played an important role in these developments This collection will appeal to students and researchers with an interest in substructural logics abstract algebraic logic residuated lattices proof theory universal algebra and logical semantics

Quantum Information Gregg Jaeger, 2006-11-15 This book gives an overview for practitioners and students of quantum physics and information science It provides ready access to essential information on quantum information processing and communication such as definitions protocols and algorithms Quantum information science is rarely found in clear and concise form This book brings together this information from its various sources It allows researchers and students in a range of areas including physics photonics solid state electronics nuclear magnetic resonance and information technology in their applied and theoretical branches to have this vital material directly at hand

Fifty Years of Fuzzy Logic and its Applications Dan E. Tamir, Naphtali D. Rishe, Abraham Kandel, 2015-05-23 This book presents a comprehensive report on the evolution of Fuzzy Logic since its formulation in Lotfi Zadeh's seminal paper on fuzzy sets published in 1965 In addition it features a stimulating sampling from the broad field of research and development inspired by Zadeh's paper The chapters written by pioneers and prominent scholars in the field show how fuzzy sets have been successfully applied to artificial intelligence control theory inference and reasoning The book also reports on theoretical issues features recent applications of Fuzzy Logic in the fields of neural networks clustering data mining and software testing and highlights an important paradigm shift caused by Fuzzy Logic in the area of uncertainty management Conceived by the editors as an academic celebration of the fifty years anniversary of the 1965 paper this work is a must have for students and researchers willing to get an inspiring picture of the potentialities limitations achievements and accomplishments of Fuzzy Logic based systems

Foundations of Quantum Programming Mingsheng Ying, 2024-04-29 Quantum computers promise dramatic advantages in processing speed over currently available computer systems Quantum computing offers great promise in a wide variety of computing and scientific research including Quantum cryptography machine learning computational biology renewable energy computer aided drug design generative chemistry and any scientific or enterprise

application that requires computation speed or reach beyond the limits of current conventional computer systems
 Foundations of Quantum Programming Second Edition discusses how programming methodologies and technologies developed for current computers can be extended for quantum computers along with new programming methodologies and technologies that can effectively exploit the unique power of quantum computing The Second Edition includes two new chapters describing programming models and methodologies for parallel and distributed quantum computers The author has also included two new chapters to introduce Quantum Machine Learning and its programming models parameterized and differential quantum programming In addition the First Edition s preliminaries chapter has been split into three chapters with two sections for quantum Turing machines and random access stored program machines added to give the reader a more complete picture of quantum computational models Finally several other new techniques are introduced in the Second Edition including invariants of quantum programs and their generation algorithms and abstract interpretation of quantum programs Demystifies the theory of quantum programming using a step by step approach Includes methodologies techniques and tools for the development analysis and verification of quantum programs and quantum cryptographic protocols Covers the interdisciplinary nature of quantum programming by providing preliminaries from quantum mechanics mathematics and computer science and pointing out its potential applications to quantum engineering and physics Presents a coherent and self contained treatment that will be valuable for academic and industrial researchers and developers Adds new developments such as parallel and distributed quantum programming and introduces several new program analysis techniques such as invariants generation and abstract interpretation

Identity in Physics Steven French, Décio Krause, 2006-06-22 Can quantum particles be regarded as individuals just like books tables and people According to the received view articulated by several physicists in the immediate aftermath of the quantum revolution quantum physics itself tells us they cannot quantum particles unlike their classical counterparts must be regarded as non individuals in some sense However recent work has indicated that this is not the whole story and that the theory is also consistent with the position that such particles can be taken to be individuals albeit at a metaphysical price Drawing on philosophical accounts of identity and individuality as well as the histories of both classical and quantum physics the authors explore these two alternative metaphysical packages In particular they argue that if quantum particles are regarded as individuals then Leibniz s famous Principle of the Identity of Indiscernibles is in fact violated Recent discussions of this conclusion are analysed in detail and again the costs involved in saving the Principle are carefully considered Taking the alternative package the authors deploy recent work in non standard logic and set theory to indicate how we can make sense of the idea that objects can be non individuals The concluding chapter suggests how these results might then be extended to quantum field theory *Identity in Physics* brings together a range of work in this area and further develops the authors own contributions to the debate Uniquely as the title indicates it situates this work in the appropriate formal historical and philosophical contexts

Georgian Christian Thought and Its

Cultural Context Tamar Nutsubidze, Cornelia B. Horn, Basil Lourié, 2014-03-13 The volume contains contributions dedicated to the person and the work of Shalva Nutsubidze and his scholarly interests the Christian Orient from the fifth to the seventh century the Georgian eleventh century the Neoplatonic philosopher Ioane Petritsi and his epoch and Shota Rustaveli and mediaeval Georgian culture Among the articles are a new edition and translation of the original Georgian author's Preface to the lost Commentary on the Psalms by Ioane Petritsi and the editio princeps with an English translation of an epistle of Nicetas Stethatos eleventh century whose Greek original is lost The traditions of Georgian mediaeval thought are considered in their historical context within the Byzantine Commonwealth and are traced in both philosophy and poetry

Knowledge and Time Hans Primas, 2017-05-23 This is a unique volume by a unique scientist which combines conceptual formal and engineering approaches in a way that is rarely seen Its core is the relation between ways of learning and knowing on the one hand and different modes of time on the other Partial Boolean logic and the associated notion of complementarity are used to express this relation and mathematical tools of fundamental physics are used to formalize it Along the way many central philosophical problems are touched and addressed above all the mind body problem Completed only shortly before the death of the author the text has been edited and annotated by the author's close collaborator Harald Atmanspacher

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