

MATHEMATICAL
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of QUANTUM
MECHANICS

New Edition

JOHN
VON NEUMANN

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John Von Neumann And The Foundations Of Quantum Physics

Jeremy Butterfield, John Earman



John Von Neumann And The Foundations Of Quantum Physics:

John von Neumann and the Foundations of Quantum Physics Miklós Rédei, Michael Stöltzner, 2013-03-09 John von Neumann 1903 1957 was undoubtedly one of the scientific geniuses of the 20th century The main fields to which he contributed include various disciplines of pure and applied mathematics mathematical and theoretical physics logic theoretical computer science and computer architecture Von Neumann was also actively involved in politics and science management and he had a major impact on US government decisions during and especially after the Second World War There exist several popular books on his personality and various collections focusing on his achievements in mathematics computer science and economy Strangely enough to date no detailed appraisal of his seminal contributions to the mathematical foundations of quantum physics has appeared Von Neumann s theory of measurement and his critique of hidden variables became the touchstone of most debates in the foundations of quantum mechanics Today his name also figures most prominently in the mathematically rigorous branches of contemporary quantum mechanics of large systems and quantum field theory And finally as one of his last lectures published in this volume for the first time shows he considered the relation of quantum logic and quantum mechanical probability as his most important problem for the second half of the twentieth century The present volume embraces both historical and systematic analyses of his methodology of mathematical physics and of the various aspects of his work in the foundations of quantum physics such as theory of measurement quantum logic and quantum mechanical entropy The volume is rounded off by previously unpublished letters and lectures documenting von Neumann s thinking about quantum theory after his 1932 Mathematical Foundations of Quantum Mechanics The general part of the Yearbook contains papers emerging from the Institute s annual lecture series and reviews of important publications of philosophy of science and its history

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and is intended for graduate students and researchers who want to step into the fundamental aspects of quantum physics. Given its clarity, it is accessible also to advanced undergraduates and contains many exercises and examples to master the subject.

The Legacy of John Von Neumann James G. Glimm, John Impagliazzo, Isadore Singer, 2006-09-08 The ideas of John von Neumann have had a profound influence on modern mathematics and science. One of the great thinkers of our century, von Neumann initiated major branches of mathematics from operator algebras to game theory to scientific computing and had a fundamental impact on such areas as self adjoint operators, ergodic theory and the foundations of quantum mechanics and numerical analysis and the design of the modern computer. This volume contains the proceedings of an AMS Symposium in Pure Mathematics held at Hofstra University in May 1988. The symposium brought together some of the foremost researchers in the wide range of areas in which von Neumann worked. These articles illustrate the sweep of von Neumann's ideas and thinking and document their influence on contemporary mathematics. In addition, some of those who knew von Neumann when he was alive have presented here personal reminiscences about him. This book is directed to those interested in operator theory, game theory, ergodic theory and scientific computing as well as to historians of mathematics and others having an interest in the contemporary history of the mathematical sciences. This book will give readers an appreciation for the workings of the mind of one of the mathematical giants of our time.

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A Phenomenological Approach to Quantum Mechanics Steven French, 2024-02-22 Steven French suggests a radical new approach to the understanding of quantum physics derived from Husserl's phenomenological philosophy. In this approach, consciousness plays a fundamental role that is very different from what has previously been supposed.

Weird Scientists - the Creators of Quantum Physics Jeffrey Strickland, 2011-09-04 *Weird Scientists* is a sequel to *Men of Manhattan*. As I wrote the latter about the nuclear physicists who brought in the era of nuclear power, quantum

mechanics or quantum physics was unavoidable Many of the contributors to the science of splitting the atom were also contributors to quantum mechanics Atomic physics particle physics quantum physics and even relativity are all interrelated This book is about the men and women who established the science that shook the foundations of classical physics removed determinism from measurement and created alternative worlds of reality The book introduces fundamental concepts of quantum mechanics roughly in the order they were discovered as a launching point for describing the scientist and the work that brought forth the concepts

Alternative Logics. Do Sciences Need Them? Paul A. Weingartner, 2013-03-09 Initially proposed as rivals of classical logic alternative logics have become increasingly important in sciences such as quantum physics computer science and artificial intelligence The contributions collected in this volume address and explore the question whether the usage of logic in the sciences especially in modern physics requires a deviation from classical mathematical logic The articles in the first part of the book set the scene by describing the context and the dilemma when applying logic in science In part II the authors offer several logics that deviate in different ways from classical logics The twelve papers in part III investigate in detail specific aspects such as quantum logic quantum computation computer science considerations praxic logic and quantum probability Most of the contributions are revised and partially extended versions of papers presented at a conference of the same title of the Acad mie Internationale de Philosophie des Sciences held at the Internationales Forschungszentrum Salzburg in May 1999 Others have been added to complete the picture of recent research in alternative logics as they have been developed for applications in the sciences

Epistemological and Experimental Perspectives on Quantum Physics Daniel Greenberger, W.L. Reiter, Anton Zeilinger, 2013-04-17 From the very beginning it was realised that quantum physics involves radically new interpretative and epistemological consequences While hitherto there has been no satisfactory philosophical analysis of these consequences recent years have witnessed the accomplishment of many experiments to test the foundations of quantum physics opening up vistas to a completely novel technology quantum technology The contributions in the present volume review the interpretative situation analyze recent fundamental experiments and discuss the implications of possible future technological applications Readership Analytic philosophers logical empiricists scientists especially physicists historians of logic mathematics and physics philosophers of science and advanced students and researchers in these fields Can be used for seminars on theoretical and experimental physics and philosophy of science and as supplementary reading at advanced undergraduate and graduate levels

Philosophy of Physics Jeremy Butterfield, John Earman, 2007 The ambition of this volume is twofold to provide a comprehensive overview of the field and to serve as an indispensable reference work for anyone who wants to work in it For example any philosopher who hopes to make a contribution to the topic of the classical quantum correspondence will have to begin by consulting Klaas Landsman's chapter The organization of this volume as well as the choice of topics is based on the conviction that the important problems in the philosophy of physics arise from studying the foundations of the fundamental

theories of physics It follows that there is no sharp line to be drawn between philosophy of physics and physics itself Some of the best work in the philosophy of physics is being done by physicists as witnessed by the fact that several of the contributors to the volume are theoretical physicists viz Ellis Emch Harvey Landsman Rovelli t Hooft the last of whom is a Nobel laureate

Key features Definitive discussions of the philosophical implications of modern physics Masterly expositions of the fundamental theories of modern physics Covers all three main pillars of modern physics relativity theory quantum theory and thermal physics Covers the new sciences grown from these theories for example cosmology from relativity theory and quantum information and quantum computing from quantum theory Contains special Chapters that address crucial topics that arise in several different theories such as symmetry and determinism Written by very distinguished theoretical physicists including a Nobel Laureate as well as by philosophers Definitive discussions of the philosophical implications of modern physics Masterly expositions of the fundamental theories of modern physics Covers all three main pillars of modern physics relativity theory quantum theory and thermal physics Covers the new sciences that have grown from these theories for example cosmology from relativity theory and quantum information and quantum computing from quantum theory Contains special Chapters that address crucial topics that arise in several different theories such as symmetry and determinism Written by very distinguished theoretical physicists including a Nobel Laureate as well as by philosophers

Beyond Measure J. E. Baggott, 2004 Quantum theory is one the most important and successful theories of modern physical science It has been estimated that its principles form the basis for about 30 per cent of the world s manufacturing economy This is all the more remarkable because quantum theory is a theory that nobody understands The meaning of Quantum Theory introduces science students to the theory s fundamental conceptual and philosophical problems and the basis of its non understandability It does this with the barest minimum of jargon and very little mathematics in the main text Readers wishing to delve more deeply into the theory s mathematical subtleties can do so in an extended series of appendices The book brings the reader up to date with the results of new experimental tests of quantum weirdness and reviews the latest thinking on alternative interpretations the frontiers of quantum cosmology quantum gravity and potential application of this weirdness in computing cryptography and teleportation

The Oxford Handbook of Philosophy of Physics Robert Batterman, 2013-03-14 This Oxford Handbook provides an overview of many of the topics that currently engage philosophers of physics It surveys new issues and the problems that have become a focus of attention in recent years It also provides up to date discussions of the still very important problems that dominated the field in the past In the late 20th Century the philosophy of physics was largely focused on orthodox Quantum Mechanics and Relativity Theory The measurement problem the question of the possibility of hidden variables and the nature of quantum locality dominated the literature on the quantum mechanics whereas questions about relationalism vs substantivalism and issues about underdetermination of theories dominated the literature on spacetime These issues still receive considerable attention from philosophers but many

have shifted their attentions to other questions related to quantum mechanics and to spacetime theories Quantum field theory has become a major focus particularly from the point of view of algebraic foundations Concurrent with these trends there has been a focus on understanding gauge invariance and symmetries The philosophy of physics has evolved even further in recent years with attention being paid to theories that for the most part were largely ignored in the past For example the relationship between thermodynamics and statistical mechanics once thought to be a paradigm instance of unproblematic theory reduction is now a hotly debated topic The implicit and sometimes explicit reductionist methodology of both philosophers and physicists has been severely criticized and attention has now turned to the explanatory and descriptive roles of non fundamental phenomenological theories This shift of attention includes old theories such as classical mechanics once deemed to be of little philosophical interest Furthermore some philosophers have become more interested in less fundamental contemporary physics such as condensed matter theory Questions abound with implications for the nature of models idealizations and explanation in physics This Handbook showcases all these aspects of this complex and dynamic discipline

The Philosophy of Science: N-Z, Index Sahotra Sarkar, Jessica Pfeifer, 2006 The first in depth reference to the field that combines scientific knowledge with philosophical inquiry this encyclopedia brings together a team of leading scholars to provide nearly 150 entries on the essential concepts in the philosophy of science The areas covered include biology chemistry epistemology and metaphysics physics psychology and mind the social sciences and key figures in the combined studies of science and philosophy Midwest

Theology and Modern Physics Peter E. Hodgson, 2017-09-08 The new discoveries in physics during the twentieth century have stimulated intense debate about their relevance to age old theological questions Views range from those holding that modern physics provides a surer road to God than traditional religions to those who say that physics and theology are incommensurable and so do not relate At the very least physics has stimulated renewed theological discussions In this critical introduction to the science theology debate Peter E Hodgson draws on his experience as a physicist to present the results of modern physics and the theological implications Written for those with little or no scientific background Hodgson describes connections between physics philosophy and theology and then explains Newtonian physics and Victorian physics the theories of relativity astronomy and quantum mechanics and distinguishes the actual results of modern physics from speculations The connections with theology are explored throughout The concluding section draws discussions together and makes an important new contribution to the debate

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.

John S. Bell on the Foundations of Quantum Mechanics J. S. Bell, Mary Bell, Kurt Gottfried, Martinus Veltman, 2001. This book is the most complete collection of John S. Bell's research papers, review articles, and lecture notes on the foundations of quantum mechanics. Some of this material has hitherto been difficult to access. The book also appears in a paperback edition aimed at students and young researchers. This volume will be very useful to researchers in the foundations and applications of quantum mechanics.

Landmark Writings in Western Mathematics 1640-1940 Ivor Grattan-Guinness, 2005-02-11. This book contains around 80 articles on major writings in mathematics published between 1640 and 1940. All aspects of mathematics are covered: pure and applied, probability and statistics, foundations, and philosophy. Sometimes two writings from the same period and the same subject are taken together. The biography of the author is recorded, and the circumstances of the preparation of the writing are given. When the writing is of some length, an analytical table of its contents is supplied. The contents of the writing are reviewed, and its impact described at least for the immediate decades. Each article ends with a bibliography of primary and secondary items. First book of its kind. Covers the period 1640-1940 of massive development in mathematics. Describes many of the main writings of mathematics. Articles written by specialists in their field.

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