

John von Neumann and the Foundations of Quantum Physics

edited by
Miklós Rédei and Michael Stöltzner



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John Von Neumann And The Foundations Of Quantum Physics

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John Von Neumann And The Foundations Of Quantum Physics:

Mathematical Foundations of Quantum Mechanics John von Neumann, 1955 A revolutionary book that for the first time provided a rigorous mathematical framework for quantum mechanics Google books **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such as theory of measurement quantum logic and quantum mechanical entropy The volume is rounded off by previously unpublished letters and lectures documenting von Neumann's thinking about quantum theory after his 1932 Mathematical Foundations of Quantum Mechanics The general part of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 Mathematical Foundations of Quantum Mechanics John von Neumann, 2018-02-27 Quantum mechanics was still in its infancy in 1932 when the young John von Neumann who would go on to become one of the greatest mathematicians of the twentieth century published Mathematical Foundations of Quantum Mechanics a revolutionary book that for the first time provided a rigorous mathematical framework for the new science Robert Beyer's 1955 English translation which von Neumann reviewed and approved is cited more frequently today than ever before But its many treasures and insights were too often obscured by the limitations of the way the text and equations were set on the page In this new edition of this classic work mathematical physicist Nicholas Wheeler has completely reset the book in TeX making the text and equations far easier to read He has also corrected a handful of typographic errors revised some sentences for clarity and readability provided an index for the first time and added prefatory remarks drawn from the writings of L on Van Hove and Freeman Dyson The result brings new life to an essential work in theoretical physics and mathematics **Studies**

in the Foundations of Quantum Mechanics Patrick Suppes, 1980

Legacy of John Von Neumann James

Glimm, 2014-06-29 The ideas of John von Neumann have had a profound influence on modern mathematics and science Often considered 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

The Legacy of John von Neumann American Mathematical Society, 1990 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

Foundations of Quantum Mechanics Società italiana di fisica, 1971 The subject of our discussions E Wigner Foundations of quantum mechanics J M Jauch Limitations on measurement H Stein and A Shimony Optimal measuring apparatus M M Yanase Measure et non s parabilit B D Espagnat Macroscopic physics and the problem of measurement in quantum mechanics G M Prosperi Measurability problems in the quantum theory of fields J Kalckar Introduction to the hidden variable question J S Bell Experimental test of local hidden variable theories A Shimony Experimental test of quantum predictions for widely separated photons L Kasday The many universes interpretation of quantum mechanics B S De Witt On the irreversibility of time and observation in quantum theory H D Zen Observables in general quantum theory C Piron The measuring process and an axiomatic foundation of quantum mechanics G Ludwig On a new development in the description of correlations between two quantum systems F Herbut and M Vujicic Superselection rules and internal symmetries A Frenkel Measuring processes and additive conservation laws K E Hellwig L interpretation de la mécanique ondulatoire par la théorie de la double solution L de Broglie Une formulation causale de la théorie quantique de la mesure J Andrade e Silva Realism and the wave function of quantum mechanics F Selleri Seminar notes H Neumann Quantum theory as an indication of a new order in physics Philosophical comments on quantum mechanics A Shimony Comments and questions concerning Shimony's lecture J Ehlers

The Philosophy of Science 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 **The Philosophy of Quantum Mechanics** Max Jammer, 1974-12-03 A Wiley Interscience publication Einstein and the Philosophical Problems of 20th-century Physics, 1983 **Historical Studies in the Physical and Biological Sciences**, 2005 **The Voice of the Martians** George Marx, 2001 **The Philosophy of Karl Popper** Karl Raimund Popper, 1974 **Encyclopedia of Mathematical Physics** Jean-Pierre Francoise, Gregory L. Naber, Tsou Sheung Tsun, 2006-06-20 The Encyclopedia of Mathematical Physics provides a complete resource for researchers students and lecturers with an interest in mathematical physics It enables readers to access basic information on topics peripheral to their own areas to provide a repository of the core information in the area that can be used to refresh the researcher's own memory banks and aid teachers in directing students to entries relevant to their course work The Encyclopedia does contain information that has been distilled organised and presented as a complete reference tool to the user and a landmark to the body of knowledge that has accumulated in this domain It also is a stimulus for new researchers working in mathematical physics or in areas using the methods originating from work in mathematical physics by providing them with focused high quality background information Editorial Board Jean Pierre Fran oise Universit Pierre et Marie Curie Paris France Gregory L Naber Drexel University Philadelphia PA USA Tsou Sheung Tsun University of Oxford UK Also available online via ScienceDirect 2006 featuring extensive browsing searching and internal cross referencing between articles in the work plus dynamic linking to journal articles and abstract databases making navigation flexible and easy For more information pricing options and availability visit www.info.sciencedirect.com First comprehensive interdisciplinary coverage Mathematical Physics explained to stimulate new developments and foster new applications of its methods to other fields Written by an international group of experts Contains several undergraduate level introductory articles to facilitate acquisition of new expertis Thematic index and extensive cross referencing to provide easy access and quick search functionality Also available online with active linking The British Journal for the Philosophy of Science, 1958 **University of Pittsburgh Series in the Philosophy of Science**, 1972 *The Politics of Game Theory* Paul Hilding Breslich Erickson, 2006 *The Journal of Speculative Philosophy*, 1990 **Quantum Theory and Gravitation** A. R. Marlow, 1980 Quantum Theory and Gravitation *Entropy and Bioeconomics* Iosif Constantin Drăgan, Mihai C. Demetrescu, 1991

Whispering the Strategies of Language: An Psychological Journey through **John Von Neumann And The Foundations Of Quantum Physics**

In a digitally-driven earth wherever monitors reign great and instant communication drowns out the subtleties of language, the profound strategies and psychological nuances concealed within phrases usually go unheard. However, set within the pages of **John Von Neumann And The Foundations Of Quantum Physics** a interesting literary treasure blinking with fresh feelings, lies an extraordinary journey waiting to be undertaken. Penned by a talented wordsmith, that enchanting opus attracts visitors on an introspective journey, delicately unraveling the veiled truths and profound impact resonating within the fabric of each and every word. Within the mental depths of this emotional evaluation, we shall embark upon a heartfelt exploration of the book is primary styles, dissect their interesting publishing design, and succumb to the powerful resonance it evokes strong within the recesses of readers hearts.

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