



Olival Freire Junior

The Quantum Dissidents

Rebuilding the Foundations of
Quantum Mechanics (1950–1990)

With a Foreword by
Silvan S. Schweber

 Springer

The Quantum Dissidents Rebuilding The Foundations Of Quantum Mechanics 1950 199

J. S. Bell



The Quantum Dissidents Rebuilding The Foundations Of Quantum Mechanics 1950 199:

The Quantum Dissidents Olival Freire Junior, 2014-12-26 This book tells the fascinating story of the people and events behind the turbulent changes in attitudes to quantum theory in the second half of the 20th century The huge success of quantum mechanics as a predictive theory has been accompanied from the very beginning by doubts and controversy about its foundations and interpretation This book looks in detail at how research on foundations evolved after WWII when it was revived until the mid 1990s when most of this research merged into the technological promise of quantum information It is the story of the quantum dissidents the scientists who brought this subject from the margins of physics into its mainstream It is also a history of concepts experiments and techniques and of the relationships between physics and the world at large touching on themes such as the Cold War McCarthyism Zhdanovism and the unrest of the late 1960s **David Bohm** Olival Freire Junior, 2019-09-05 This authoritative biography addresses the life and work of the quantum physicist David Bohm

Although quantum physics is considered the soundest physical theory its strange and paradoxical features have challenged and continue to challenge even the brightest thinkers David Bohm dedicated his entire life to enhancing our understanding of quantum mysteries in particular quantum nonlocality His work took place at the height of the cultural political upheaval in the 1950s which led him to become the most notable American scientist to seek exile in the last century The story of his life is as fascinating as his ideas on the quantum world are appealing **Making Sense of Quantum Mechanics** Jean

Bricmont, 2016-01-12 This book explains in simple terms with a minimum of mathematics why things can appear to be in two places at the same time why correlations between simultaneous events occurring far apart cannot be explained by local mechanisms and why nevertheless the quantum theory can be understood in terms of matter in motion No need to worry as some people do whether a cat can be both dead and alive whether the moon is there when nobody looks at it or whether quantum systems need an observer to acquire definite properties The author's inimitable and even humorous style makes the book a pleasure to read while bringing a new clarity to many of the longstanding puzzles of quantum physics **The Milan**

Institute of Physics Leonardo Gariboldi, Luisa Bonolis, Antonella Testa, 2022-06-09 This book offers the first comprehensive and authoritative text on the history of physics in Italy's industrial and financial capital from the foundation of the University of Milan's Institute of Physics in 1924 up to the early 1960s when it moved to its current location It includes biographies and a historical scientific analysis of the main research topics investigated by world renowned physicists such as Aldo Pontremoli Giovanni Polvani Giovanni Gentile Jr Beppo Occhialini and Piero Caldirola highlighting their contributions to the development of Italian physics in a national and international context Further the book provides a historical perspective on the interplay of physics and politics in Italy during both the Fascist regime and the postwar reconstruction period which led to the creation of the CISE Centro Informazioni Studi Esperienze a research center for applied nuclear physics funded by private industries in 1946 and of the Milan division of the National Institute of Nuclear Physics INFN in 1951 **History of Science in Latin**

America: The Construction of an Intellectual Field (20th century) María de la Paz Ramos-Lara, Luis Carlos Arboleda, 2024-12-23 This book provides a unique analysis of how the History of Science became institutionalized in Latin America during the last two decades of the 20th century. It examines the establishment of the first Latin American community in the History of Science and its connections with the international community and various international institutions such as the International Union of History and Philosophy of Science and Technology Division of History of Science and Technology IUHPST DHST. The authors are the same scholars who have been involved in several activities and strategies to professionalize and institutionalize this field in Latin America. They explore the impact of Western educational institutions and theoretical and methodological perspectives on the introduction of the History of Science in several Latin American nations. The book examines the two-way movement of European scholars to Latin America and Latin American students mainly to France. At that time, the organization of congresses in France, Spain, the United States, and other European countries encouraged the participation of Latin American historians of science. Notable events include the Science and Empires congress in Paris 1990, the Ciencia descubrimiento y mundo colonial conference in Madrid 1991, and the International Congresses of History of Science and Technology ICHST. The authors refer to seven Latin Americans who signed the Declaration of Bucharest 1981 to promote the history of sciences in their countries. This initiative led to the establishment of the Latin American Society for the History of Science and Technology LASHST in 1982 under the leadership of Juan Jos Salda, a director of Quipu and Cuadernos de Quipu. With his leadership, existing national societies were reactivated, and new ones were created, up to ten in four years: Argentina, Brazil, Colombia, Mexico, Chile, Peru, Venezuela, Costa Rica, Ecuador, and Cuba. This effort internationally legitimized Latin American scientific practice, culminating in celebrating the XXI ICHST in Mexico City in 2001. He founded the International Association for Scientific Cultural Diversity IASCUD and became the first Latin American to serve as Secretary General of IUHPST DHS from 2001 to 2005. Through his various actions and activities, Salda and the LASHST community were able to promote the institutionalization of the History of Science in Latin America. This book pays a well-deserved tribute to his efforts.

Through Two Doors at Once Anil Ananthaswamy, 2018-08-07 One of Smithsonian's Favorite Books of 2018. One of Forbes's 2018 Best Books About Astronomy, Physics, and Mathematics. One of Kirkus's Best Books of 2018. The intellectual adventure story of the double slit experiment showing how a sunbeam split into two paths first challenged our understanding of light and then the nature of reality itself and continues to almost 200 years later. Many of science's greatest minds have grappled with the simple yet elusive double slit experiment. Thomas Young devised it in the early 1800s to show that light behaves like a wave and in doing so opposed Isaac Newton. Nearly a century later, Albert Einstein showed that light comes in quanta or particles, and the experiment became key to a fierce debate between Einstein and Niels Bohr over the nature of reality. Richard Feynman held that the double slit embodies the central mystery of the quantum world. Decade after decade, hypothesis after hypothesis, scientists have returned to this ingenious

experiment to help them answer deeper and deeper questions about the fabric of the universe How can a single particle behave both like a particle and a wave Does a particle exist before we look at it or does the very act of looking create reality Are there hidden aspects to reality missing from the orthodox view of quantum physics Is there a place where the quantum world ends and the familiar classical world of our daily lives begins and if so can we find it And if there is no such place then does the universe split into two each time a particle goes through the double slit With his extraordinarily gifted eloquence Anil Ananthaswamy travels around the world and through history down to the smallest scales of physical reality we have yet fathomed Through Two Doors at Once is the most fantastic voyage you can take **Einstein's Unfinished Revolution** Lee Smolin, 2019-04-09 Human beings says Lee Smolin author of The Trouble With Physics have always had a problem with the boundary between reality and fantasy confusing our representations of the world with the world itself Nowhere is this more evident than in quantum physics which forms the basis for our understanding of everything from elementary particles to the behaviour of materials While quantum mechanics is currently our best theory of nature at an atomic scale it has many puzzling qualities qualities that preclude realism and therefore give an incomplete description of nature Rather than question this version of quantum mechanics however whole groups of physicists have embraced it as correct and rejected realism Subscribing to a kind of magical thinking they believe that what is real is far beyond the world we perceive indeed that the true world is hidden from our perception Back in the 1920s Einstein both a realist and a physicist believed that it was necessary to go beyond quantum mechanics to discover what was missing from a true theory of the atoms This was Einstein's unfinished mission and it is Lee Smolin's too Not only will this new model of quantum physics form the basis of solutions to many of the outstanding problems of physics but crucially it is a theory that is realist in nature At a time when science is under attack and with it the belief in a real world in which facts are either true or false never has the importance of building science on the correct foundations been more urgent Einstein, Bohr and the Quantum Dilemma Andrew Whitaker, 1995-10-26 The debate between Bohr and Einstein which raged in the 1920s and 1930s is still highly relevant today It involved the two greatest physicists of the twentieth century and played a large part in Einstein's going into an effective scientific exile The debate concerned the quantum theory probably the most successful physical theory of all time This book explores the details of the conflict as well as its significance for contemporary views on the foundations of quantum theory The author gives sympathetic accounts of the views of both Bohr and Einstein and a thorough study of the argument between them The book also includes nontechnical and nonmathematical accounts of the development of quantum theory and relativity as well as the work of David Bohm and John Bell in the 1950s and 1960s that restored interest in Einstein's views The author also includes a full account of the many current experimental and theoretical developments in quantum theory *Quantum Mechanics* James T. Cushing, 1994-11 Why does one theory succeed while another possibly clearer interpretation fails By exploring two observationally equivalent yet conceptually incompatible views of quantum mechanics

James T Cushing shows how historical contingency can be crucial to determining a theory's construction and its position among competing views. Since the late 1920s the theory formulated by Niels Bohr and his colleagues at Copenhagen has been the dominant interpretation of quantum mechanics. Yet an alternative interpretation rooted in the work of Louis de Broglie in the early 1920s and reformulated and extended by David Bohm in the 1950s equally well explains the observational data. Through a detailed historical and sociological study of the physicists who developed different theories of quantum mechanics, the debates within and between opposing camps, and the receptions given to each theory, Cushing shows that despite the preeminence of the Copenhagen view, the Bohm interpretation cannot be ignored. Cushing contends that the Copenhagen interpretation became widely accepted not because it is a better explanation of subatomic phenomena than is Bohm's, but because it happened to appear first. Focusing on the philosophical, social, and cultural forces that shaped one of the most important developments in modern physics, this provocative book examines the role that timing can play in the establishment of theory and explanation.

Einstein's Struggles with Quantum Theory Dipankar Home, Andrew Whitaker, 2007-11-13 This book presents an account of all aspects of Einstein's achievements in quantum theory, his own views, and the progress his work has stimulated since his death. While some chapters use mathematics at an undergraduate physics level, a path is provided for the reader more concerned with ideas than equations, and the book will benefit to anybody interested in Einstein and his approach to the quantum.

[The Oxford Handbook of the History of Quantum Interpretations](#) Olival Freire Jr, Guido Bacciagaluppi, Olivier Darrigol, Thiago Hartz, Christian Joas, Alexei Kojevnikov, Osvaldo Pessoa Jr, 2022-03-07 Crucial to most research in physics as well as leading to the development of inventions such as the transistor and the laser, quantum mechanics approaches its centenary with an impressive record. However, the field has also long been the subject of ongoing debates about the foundations and interpretation of the theory, referred to as the quantum controversy. This Oxford Handbook offers a historical overview of the contrasts which have been at the heart of quantum physics for the last 100 years. Drawing on the wide-ranging expertise of several contributors working across physics, history, and philosophy, the handbook outlines the main theories and interpretations of quantum physics. It goes on to tackle the key controversies surrounding the field, touching on issues such as determinism, realism, locality, classicality, information, measurements, mathematical foundations, and the links between quantum theory and gravity. This engaging introduction is an essential guide for all those interested in the history of scientific controversies and the history of quantum physics. It also provides a fascinating examination of the potential of quantum physics to influence new discoveries and advances in fields such as quantum information and computing.

Quantum Theory at the Crossroads Guido Bacciagaluppi, Antony Valentini, 2009-10-22 Translation of the Fifth Solvay Congress proceedings for graduate students and researchers in physics and quantum theory.

Quantum Nonlocality and Reality Mary Bell, Shan Gao, 2016-09-19 Combining twenty-six original essays written by an impressive line-up of distinguished physicists and philosophers of physics, this anthology reflects some of the latest thoughts

by leading experts on the influence of Bell's theorem on quantum physics. Essays progress from John Bell's character and background through studies of his main work and on to more speculative ideas addressing the controversies surrounding the theorem and investigating the theorem's meaning and its deep implications for the nature of physical reality. Combined they present a powerful comment on the undeniable significance of Bell's theorem for the development of ideas in quantum physics over the past 50 years. Questions surrounding the assumptions and significance of Bell's work still inspire discussion in the field of quantum physics. Adding to this with a theoretical and philosophical perspective, this balanced anthology is an indispensable volume for students and researchers interested in the philosophy of physics and the foundations of quantum mechanics.

[Speakable and Unspeakable in Quantum Mechanics](#) J. S. Bell, 2004-06-03 John Bell FRS was one of the leading expositors and interpreters of modern quantum theory. He is particularly famous for his discovery of the crucial difference between the predictions of conventional quantum mechanics and the implications of local causality, a concept insisted on by Einstein. John Bell's work played a major role in the development of our current understanding of the profound nature of quantum concepts and of the fundamental limitations they impose on the applicability of the classical ideas of space, time and locality. This book includes all of John Bell's published and unpublished papers on the conceptual and philosophical problems of quantum mechanics, including two papers that appeared after the first edition was published. The book includes a short Preface written by the author for the first edition and also an introduction by Alain Aspect that puts into context John Bell's enormous contribution to the quantum philosophy debate.

John Von Neumann and the Foundations of Quantum Physics Dr Miklos Redei, Michael Stoltzner, 2014-01-15 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.

Foundations of Quantum Physics II (1933-1958) J. Kalckar, 2013-10-22. Volume 7 is a direct continuation of Volume 6 which documented the birth of the complementarity argument and its earliest elaborations. It covers the extension and refinement of the complementarity argument from 1933 until Bohr's death in 1962. All Bohr's publications on the subject together with selected manuscripts and extracts of his correspondence with friends and fellow pioneers such as Werner Heisenberg and Wolfgang Pauli are included. Divided into two largely independent parts, the volume begins with Bohr's contributions to Relativistic Quantum Theory. Together with L. Rosenfeld, Bohr undertook a thorough investigation of the measuring problem in quantum electrodynamics and demonstrated the full accordance between the formalism and the result of idealized thought experiments. The articles in the second part, although also restricted in scope to the field of physics, address a broader audience. One of the most impressive treatises is Bohr's own account of his debates with Albert Einstein over more than twenty years on the consistency, the completeness, and the epistemological consequences of quantum mechanics. Volumes 6 and 7 of the Collected Works are in turn related to the forthcoming Volume 10 which broadens the scope by presenting Bohr's applications of the complementarity argument beyond the domain of physics. Although each volume may be read independently, careful attention should be paid to the interrelationships between each volume in order to appreciate the subtlety of Bohr's continued elaboration and fine tuning of his complementarity argument.

David Hilbert's lectures on the foundations of physics, 1915-1927 David Hilbert, 2009. *Old Quantum Theory and Early Quantum Mechanics* Marco Giliberti, Luisa Lovisetti, 2024-06-28. This book provides a historical presentation of Old Quantum Theory and early Quantum Mechanics integrated with comments and examples that help contextualize and understand the physics discussed. It consists in a detailed analysis of the usual topics that have most contributed to the birth and the development of Quantum Mechanics: black body spectrum, atomic models, EPR paradox, etc., but also dealing with ideas, concepts, and results that are not usually treated: vortex atoms, discussion on the meaning of the term electron, non-quantum models of the Compton effect, etc. The time span taken into consideration goes mainly from the 1880s to the 1940s, but some brief notes on more recent results are also presented in the appendixes. The work is based on nearly 800 original documents: books, papers, letters, newspapers, whose content is not only partially reported but also explained and inserted in the historical, social, and disciplinary context of the time. Together with a rigorous historical framework, the book offers also an educational discussion of the physical aspects presented. Indeed, there are some specific sections and subsections with pedagogical observations. This book is intended for students pursuing STEM degrees, particularly those seeking an understanding of the genesis and rationale behind quantum mechanics. But it is surely also addressed to professional physicists who are eager to reconsider the cultural foundations

underlying the quantum view of the world We are thus thinking of inquiring minds people who teach quantum physics and individuals involved in quantum technologies *How the Hippies Saved Physics: Science, Counterculture, and the Quantum Revival* David Kaiser, 2011-06-27 How the Hippies Saved Physics gives us an unconventional view of some unconventional people engaged early in the fundamentals of quantum theory Great fun to read Anton Zeilinger Nobel laureate in physics The surprising story of eccentric young scientists among them Nobel laureates John Clauser and Alain Aspect who stood up to convention and changed the face of modern physics Today quantum information theory is among the most exciting scientific frontiers attracting billions of dollars in funding and thousands of talented researchers But as MIT physicist and historian David Kaiser reveals this cutting edge field has a surprisingly psychedelic past How the Hippies Saved Physics introduces us to a band of freewheeling physicists who defied the imperative to shut up and calculate and helped to rejuvenate modern physics For physicists the 1970s were a time of stagnation Jobs became scarce and conformity was encouraged sometimes stifling exploration of the mysteries of the physical world Dissatisfied underemployed and eternally curious an eccentric group of physicists in Berkeley California banded together to throw off the constraints of the physics mainstream and explore the wilder side of science Dubbing themselves the Fundamental Fysiks Group they pursued an audacious speculative approach to physics They studied quantum entanglement and Bell's Theorem through the lens of Eastern mysticism and psychic mind reading discussing the latest research while lounging in hot tubs Some even dabbled with LSD to enhance their creativity Unlikely as it may seem these iconoclasts spun modern physics in a new direction forcing mainstream physicists to pay attention to the strange but exciting underpinnings of quantum theory A lively entertaining story that illuminates the relationship between creativity and scientific progress How the Hippies Saved Physics takes us to a time when only the unlikeliest heroes could break the science world out of its rut *The Philosophy of Quantum Mechanics* Max Jammer, 1974-12-03 A Wiley Interscience publication

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Table of Contents The Quantum Dissidents Rebuilding The Foundations Of Quantum Mechanics 1950 199

1. Understanding the eBook The Quantum Dissidents Rebuilding The Foundations Of Quantum Mechanics 1950 199
 - The Rise of Digital Reading The Quantum Dissidents Rebuilding The Foundations Of Quantum Mechanics 1950 199
 - Advantages of eBooks Over Traditional Books
2. Identifying The Quantum Dissidents Rebuilding The Foundations Of Quantum Mechanics 1950 199
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an The Quantum Dissidents Rebuilding The Foundations Of Quantum Mechanics 1950 199
 - User-Friendly Interface
4. Exploring eBook Recommendations from The Quantum Dissidents Rebuilding The Foundations Of Quantum Mechanics

1950 199

- Personalized Recommendations
- The Quantum Dissidents Rebuilding The Foundations Of Quantum Mechanics 1950 199 User Reviews and Ratings
- The Quantum Dissidents Rebuilding The Foundations Of Quantum Mechanics 1950 199 and Bestseller Lists

5. Accessing The Quantum Dissidents Rebuilding The Foundations Of Quantum Mechanics 1950 199 Free and Paid eBooks

- The Quantum Dissidents Rebuilding The Foundations Of Quantum Mechanics 1950 199 Public Domain eBooks
- The Quantum Dissidents Rebuilding The Foundations Of Quantum Mechanics 1950 199 eBook Subscription Services
- The Quantum Dissidents Rebuilding The Foundations Of Quantum Mechanics 1950 199 Budget-Friendly Options

6. Navigating The Quantum Dissidents Rebuilding The Foundations Of Quantum Mechanics 1950 199 eBook Formats

- ePub, PDF, MOBI, and More
- The Quantum Dissidents Rebuilding The Foundations Of Quantum Mechanics 1950 199 Compatibility with Devices
- The Quantum Dissidents Rebuilding The Foundations Of Quantum Mechanics 1950 199 Enhanced eBook Features

7. Enhancing Your Reading Experience

- Adjustable Fonts and Text Sizes of The Quantum Dissidents Rebuilding The Foundations Of Quantum Mechanics 1950 199
- Highlighting and Note-Taking The Quantum Dissidents Rebuilding The Foundations Of Quantum Mechanics 1950 199
- Interactive Elements The Quantum Dissidents Rebuilding The Foundations Of Quantum Mechanics 1950 199

8. Staying Engaged with The Quantum Dissidents Rebuilding The Foundations Of Quantum Mechanics 1950 199

- Joining Online Reading Communities
- Participating in Virtual Book Clubs
- Following Authors and Publishers The Quantum Dissidents Rebuilding The Foundations Of Quantum Mechanics 1950 199

9. Balancing eBooks and Physical Books The Quantum Dissidents Rebuilding The Foundations Of Quantum Mechanics 1950 199

- Benefits of a Digital Library
- Creating a Diverse Reading Collection The Quantum Dissidents Rebuilding The Foundations Of Quantum Mechanics 1950 199
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine The Quantum Dissidents Rebuilding The Foundations Of Quantum Mechanics 1950 199
 - Setting Reading Goals The Quantum Dissidents Rebuilding The Foundations Of Quantum Mechanics 1950 199
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of The Quantum Dissidents Rebuilding The Foundations Of Quantum Mechanics 1950 199
 - Fact-Checking eBook Content of The Quantum Dissidents Rebuilding The Foundations Of Quantum Mechanics 1950 199
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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