

# Quantum Physics in America

The years through 1935

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# Quantum Physics In America The Years Through 1935

**David Kaiser**



## **Quantum Physics In America The Years Through 1935:**

**History of Science in United States** Marc Rothenberg,2012-10-12 This Encyclopedia examines all aspects of the history of science in the United States with a special emphasis placed on the historiography of science in America It can be used by students general readers scientists or anyone interested in the facts relating to the development of science in the United States Special emphasis is placed in the history of medicine and technology and on the relationship between science and technology and science and medicine *Niels Bohr and the Quantum Atom* Helge Kragh,2012-05-03 Niels Bohr and the Quantum Atom gives a comprehensive account of the birth development and decline of Bohr s atomic theory It presents the theory in a broad context which includes not only its technical aspects but also its reception dissemination and applications in both physics and chemistry Eight Lectures on Theoretical Physics Max Planck,2012-07-06 Landmark lectures 1909 by Nobel Prize winner deal with application of quantum hypothesis to blackbody radiation principle of least action relativity theory and more 1915 edition **Constructing Quantum Mechanics Volume Two** Michel Janssen,Anthony Duncan,2023-08-17 This is the second of two volumes on the genesis of quantum mechanics in the first quarter of the 20th century It covers the period 1923 1927 After covering some of the difficulties the old quantum theory had run into by the early 1920s as well as the discovery of the exclusion principle and electron spin it traces the emergence of two forms of the new quantum mechanics matrix mechanics and wave mechanics in the years 1923 27 It then shows how the new theory took care of some of the failures of the old theory and put its successes on a more solid basis Finally it shows how in 1927 the two forms of the new theory were unified first through statistical transformation theory then through the Hilbert space formalism This volume provides a detailed analysis of the classic papers by Heisenberg Born Jordan Dirac De Broglie Einstein Schrödinger von Neumann and other authors Drawing on the correspondence of these and other physicists their later reminiscences and the extensive secondary literature on the quantum revolution this volume places these papers in the context of the discussions out of which modern quantum mechanics emerged It argues that the genesis of modern quantum mechanics can be seen as the construction of an arch on a scaffold provided by the old quantum theory discarded once the arch could support itself 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 Quantum Mechanics Peter Galison, Michael Gordin, David Kaiser, 2013-09-13

Modern science has changed every aspect of life in ways that cannot be compared to developments of previous eras This four volume set presents key developments within modern physical science and the effects of these discoveries on modern global life The first two volumes explore the history of the concept of relativity the cultural roots of science the concept of time and gravity before during and after Einstein's theory and the cultural reception of relativity Volume 3 explores the impact of modern science upon global politics and the creation of a new kind of war and Volume 4 details the old and new efforts surrounding the elucidation of the quantum world as well as the cultural impact of particle physics This reprint collection pools the best scholarship available collected from a large array of difficult to acquire books journals and pamphlets Each volume begins with an introductory essay written by one of the top scholars in the history of science Students and scholars of modern culture science and society will find these volumes a veritable research gold mine *Making 20th Century Science* Stephen G. Brush, 2015-04-13

Historically the scientific method has been said to require proposing a theory making a prediction of something not already known testing the prediction and giving up the theory or substantially changing it if it fails the test A theory that leads to several successful predictions is more likely to be accepted than one that only explains what is already known but not understood This process is widely treated as the conventional method of achieving scientific progress and was used throughout the twentieth century as the standard route to discovery and experimentation But does science really work this way In *Making 20th Century Science* Stephen G Brush discusses this question as it relates to the development of science throughout the last century Answering this question requires both a philosophically and historically scientific approach and Brush blends the two in order to take a close look at how scientific methodology has developed Several cases from the history of modern physical and biological science are examined including Mendeleev's Periodic Law Kekule's structure for benzene the light quantum hypothesis quantum mechanics chromosome theory and natural selection In general it is found that theories are accepted for a combination of successful predictions and better explanations of old facts *Making 20th Century Science* is a large scale historical look at the implementation of the scientific method and how scientific theories come to be accepted **Quantum Legacies** David Kaiser, 2022-06-16

Physicists have grappled with quantum theory for over a century They have learned to wring precise answers from the theory's governing equations and no experiment to date has found compelling evidence to contradict it Even so the conceptual apparatus remains stubbornly famously bizarre Physicists have tackled these conceptual uncertainties while navigating still larger ones the rise of fascism

cataclysmic world wars and a new nuclear age an unsteady Cold War stand off and its unexpected end Quantum Legacies introduces readers to physics still unfolding quest by treating iconic moments of discovery and debate among well known figures like Albert Einstein Erwin Schrödinger and Stephen Hawking and many others whose contributions have indelibly shaped our understanding of nature

**Binary Stars, Neutrinos, and Liquid Crystals:** Paul A. Heiney, 2022-12-21 This book traces the parallel paths of physics and astronomy at the University of Pennsylvania starting with their genesis in the 18th century through the rising stature of both departments in the 20th century and concluding with their unification in 1994 Along the way we meet David Rittenhouse who observed the transit of Venus in 1769 Charles Doolittle whose remarkable beard would freeze to his telescope on cold nights Gaylord Harnwell who transformed first the physics department and then the entire university and Raymond Davis who uncovered a mystery in the middle of the sun The stories are tragic Arthur Goodspeed failed to discover X rays through inattention horrifying Dicran Kabakjian poisoned an entire neighborhood and celebratory three Penn physicists received the Nobel Prize in the late 20th Century The reader will gain an appreciation not just of the history of one institution but of the ways these two disciplines both intersect and complement each other

Quantum Physics in America Katherine R. Sopka, 1988-08

**Crystal Fire: The Invention of the Transistor and the Birth of the Information Age** Michael Riordan, Lillian Hoddeson, 2023-10-24 Without the invention of the transistor I'm quite sure that the PC would not exist as we know it today Bill Gates On December 16 1947 John Bardeen and Walter Brattain physicists at Bell Laboratories jabbed two electrodes into a sliver of germanium The power flowing from the germanium far exceeded what went in in that moment the transistor was invented and the Information Age was born No other devices have been as crucial to modern life as the transistor and the microchip it spawned but the story of the science and personalities that made these inventions possible has not been fully told until now Crystal Fire fills this gap and carries the story forward William Shockley Bell Labs team leader and co recipient of the Nobel Prize with Brattain and Bardeen for the discovery grew obsessed with the transistor and went on to become the father of Silicon Valley Here is a deeply human story about the process of invention including the competition and economic aspirations involved all part of the greatest technological explosion in history The intriguing history of the transistor its inventors physics and stunning impact on society and the economy unfolds here in a richly told tale Science News Thoroughly accessible to lay readers as well as the techno savvy A fine book Publishers Weekly

**The Rejection of Continental Drift** Naomi Oreskes, 1999-04-01 In the early twentieth century American earth scientists were united in their opposition to the new and highly radical notion of continental drift even going so far as to label the theory unscientific Some fifty years later however continental drift was heralded as a major scientific breakthrough and today it is accepted as scientific fact Why did American geologists reject so adamantly an idea that is now considered a cornerstone of the discipline And why were their European colleagues receptive to it so much earlier This book based on extensive archival research on three continents provides important new answers

while giving the first detailed account of the American geological community in the first half of the century Challenging previous historical work on this episode Naomi Oreskes shows that continental drift was not rejected for the lack of a causal mechanism but because it seemed to conflict with the basic standards of practice in American geology This account provides a compelling look at how scientific ideas are made and unmade *The Command of Light* George Kean Sweetnam,2000

Henry Rowland 1848 1901 was one of the most important figures in the founding of modern physics in the U S A principal founder and first pres of the Amer Physical Soc he is best known for his invention of the concave spectral grating for which he won a gold medal and grand prize at the 1890 Paris Exposition A grad of Rensselaer Polytechnic Inst in civil engineering Rowland was prof of physics at Johns Hopkins Univ where he had the principal part in forming the first school of Amer physicists to be professionally trained in the U S In this vol Sweetnam using Rowland s papers and those of his colleagues and students has written the first scholarly exposition of Rowland s work *Statistical Method from the Viewpoint of Quality Control* Walter Andrew Shewhart,William Edwards Deming,1986-01-01 Important text offers lucid explanation of how to regulate variables and maintain control over statistics in order to achieve quality control over manufactured products crops and data Topics include statistical control establishing limits of variability measurements of physical properties and constants and specification of accuracy and precision First inexpensive paperback edition *Drawing Theories Apart* David Kaiser,2009-11-15 Winner of the 2007 Pfizer Prize from the History of Science Society Feynman diagrams have revolutionized nearly every aspect of theoretical physics since the middle of the twentieth century Introduced by the American physicist Richard Feynman 1918 88 soon after World War II as a means of simplifying lengthy calculations in quantum electrodynamics they soon gained adherents in many branches of the discipline Yet as new physicists adopted the tiny line drawings they also adapted the diagrams and introduced their own interpretations Drawing Theories Apart traces how generations of young theorists learned to frame their research in terms of the diagrams and how both the diagrams and their users were molded in the process Drawing on rich archival materials interviews and more than five hundred scientific articles from the period Drawing Theories Apart uses the Feynman diagrams as a means to explore the development of American postwar physics By focusing on the ways young physicists learned new calculational skills David Kaiser frames his story around the crafting and stabilizing of the basic tools in the physicist s kit thus offering the first book to follow the diagrams once they left Feynman s hands and entered the physics vernacular *Redirecting Science: Niels Bohr, Philanthropy, and the Rise of Nuclear Physics* Finn Aaserud,2019-08-17 How and why do complex scientific disciplines such as physics change emphasis from one sub discipline to another Do such transitions stem entirely from developments within the discipline itself or also from external factors This book addresses these questions by examining the transition from atomic to nuclear physics theoretically and experimentally at Niels Bohr s Institute for Theoretical Physics in Copenhagen in the 1930s On the basis of extensive archival research Finn Aaserud shows that the Copenhagen spirit the playful research

atmosphere under Bohr's fatherly guidance that permeated the Institute thrived because of extra scientific circumstances that Bohr exploited to the fullest such as the need to help Jewish physicists out of Hitler's Germany and the changing funding policies of private foundations notably those of the Rockefeller Foundation which made it opportune to introduce research in experimental biology at the Institute. A clear, carefully developed and substantially convincing argument Aaserud gives a detailed and impressively documented account of the direction of Bohr's scientific interests. Aaserud is to be congratulated for his original, clear, indeed didactic work of scholarship and enlightenment. Paul Forman, *Physics Today*. A professional historian's study of the happenings at the Niels Bohr Institute in the decisive years 1930 to 1940. In particular, the support of the Institute by Danish and other foundations, mainly the Rockefeller Foundation, are treated in great detail, revealing many interesting aspects of these relationships. The detailed accounts of Bohr's negotiations are a testimony to Bohr's uncanny ability to get what he wanted from the various foundations. Aaserud's book is an invaluable source of information showing that Bohr was not only an inspiring physicist and philosopher but also a cunning negotiator who knew how to make use of his great reputation for the benefit of science. Victor F. Weisskopf, *Science*. Aaserud elucidates Bohr's skills not only as mentor and guiding hand behind the Copenhagen spirit but also as financial negotiator. Neil Wasserman, *Isis: A Journal of the History of Science Society*. This book teaches us that running such a truly elite institution required entrepreneurial skills as well as scientific genius. Bohr had an abundance of both. Jeremy Bernstein, *Nature*. Redirecting Science is the history of Bohr's institute during the 1930s when it experienced a drastic change in its research priorities from a laissez faire mode of work and lack of clearly defined research programme to a concerted research effort in nuclear physics and experimental biology. Aaserud gives a highly interesting account of the interaction between physics and biology. Aaserud's carefully documented work is an excellent example of how institutional history may transcend social and institutional limitations and integrate also conceptual history of science. Helge Kragh, *Centaurus*. By showing that a new research programme at one of the most important scientific institutes in the world was triggered and pushed forward by social and financial considerations, this book delivers yet another blow to the tired old idea that scientific knowledge is driven by its own internal inexorable logic. It also throws valuable light on Bohr's activities and strategies as a fundraiser and institution builder. John Krige, *The British Journal for the History of Science*. True Genius Vicki Daitch, Lillian Hoddeson, 2002-10-28. What is genius? Define it. Now think of scientists who embody the concept of genius. Does the name John Bardeen spring to mind? Indeed, have you ever heard of him? Like so much in modern life, immediate name recognition often rests on a cult of personality. We know Einstein, for example, not just for his tremendous contributions to science but also because he was a character who loved to mug for the camera. And our continuing fascination with Richard Feynman is not exclusively based on his body of work; it is in large measure tied to his flamboyant nature and offbeat sense of humor. These men and their outsize personalities have come to erroneously symbolize the true nature of genius and creativity. We picture them born brilliant, instantly larger than life. But is that an

accurate picture of genius What of others who are equal in stature to these icons of science but whom history has awarded only a nod because they did not readily engage the public Could a person qualify as a bona fide genius if he was a regular Joe The answer may rest in the story of John Bardeen John Bardeen was the first person to have been awarded two Nobel Prizes in the same field He shared one with William Shockley and Walter Brattain for the invention of the transistor But it was the charismatic Shockley who garnered all the attention primarily for his Hollywood ways and notorious views on race and intelligence Bardeen s second Nobel Prize was awarded for the development of a theory of superconductivity a feat that had eluded the best efforts of leading theorists including Albert Einstein Neils Bohr Werner Heisenberg and Richard Feynman Arguably Bardeen s work changed the world in more ways than that of any other scientific genius of his time Yet while every school child knows of Einstein few people have heard of John Bardeen Why is this the case Perhaps because Bardeen differs radically from the popular stereotype of genius He was a modest mumbling Midwesterner an ordinary person who worked hard and had a knack for physics and mathematics He liked to picnic with his family collaborate quietly with colleagues or play a round of golf None of that was newsworthy so the media and consequently the public ignored him John Bardeen simply fits a new profile of genius Through an exploration of his science as well as his life a fresh and thoroughly engaging portrait of genius and the nature of creativity emerges This perspective will have readers looking anew at what it truly means to be a genius

Wave-Particle Duality Franco Selleri, 2012-12-06 This volume tries to continue a tradition of reviews of the contemporary research on the foundations of modern physics begun by the volume on the Einstein Podolsky Rosen paradox that appeared a few years ago I Its publication coincides with the hundredth anniversary of de Broglie s birth 1892 a very welcome superposition given the lasting influence of the Einstein de Broglie conception of wave particle duality The present book however contains papers based on a broad spectrum of basic ideas some even opposite to those that Einstein and de Broglie would have liked The order of the contributions in this book is alphabetical by first author s name It is important here to stress the presence of three reviews of fundamental experimental data by Hasselbach electron interferometry Rauch neutron interferometry and Tonomura Aharonov Bohm effect Hasselbach reviews several interesting experiments performed in 1Ubingen with the electron biprism interferometer Wave particle duality is brought out in striking ways e g in the buildup of an interference pattern out of single events The Sagnac effect for electrons is also discussed The chapter by Rauch presents interesting results on wave particle duality for neutrons Of particular interest are the differences between stochastic and deterministic absorption in the neutron interferometer and the concrete evidence for the quantum mechanical 41T symmetry of spinors In the short chapter by Tonomura conclusive evidence for the reality of the Aharonov Bohm effect is reviewed collected in experiments based on advanced technologies of electron holography and microlithography

**Historical Studies in the Physical and Biological Sciences** ,2006 **Arnold Sommerfeld** Michael Eckert, 2013-06-24 The subject of the book is a biography of the theoretical physicist Arnold Sommerfeld 1868 1951 Although



Sommerfeld is famous as a quantum theorist for the elaboration of the semi classical atomic theory Bohr Sommerfeld model Sommerfeld's fine structure constant his role in the history of modern physics is not confined to atoms and quanta Sommerfeld left his mark in the history of mathematics fluid mechanics a number of physical subdisciplines and in particular as founder of a most productive school Peter Debye Wolfgang Pauli Werner Heisenberg Linus Pauling and Hans Bethe were his pupils to name only the Nobel laureates among them This biography is to a large extent based on primary source material correspondence diaries unpublished manuscripts It should be of particular interest to students who are keen to know more about the historical roots of modern science Sommerfeld lived through turbulent times of German history Wilhelmian Empire Weimar Republic Nazi period His life therefore illustrates how science and scientists perform in changing social environments From this perspective the biography should also attract readers with a general interest in the history of science and technology

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