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The Quantum Story by Jim Baggott is a great book on the evolution of quantum theory. It starts with the initial crisis at the end of the 19th century and follows up all the way to 2010. This includes relativistic quantum theory, the interpretation of quantum theory, QED, QCD, the Standard Model, quantum loop

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theory and superstring theory.

The Quantum Story: A History in 40 Moments by Jim Baggott

The basic history behind the quantum revolution is well known, but no one has told it in quite such a compellingly human and thematically seamless way. (Publishers Weekly) Jim Baggott's inspired ? and inspiring ? idea of presenting the history of quantum physics in terms of 40 key moments works both as an introduction for the uninitiated and as a refresher for anyone who thinks they know the story.

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From its birth in the porcelain furnaces used to study black body radiation in 1900, to the promise of stimulating new quantum phenomena

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to be revealed by CERN's Large Hadron Collider over a hundred years later, this is the extraordinary story of the quantum world. Contents. Part I: Quantum in Action 1: An Act of Desperation: Berlin 1900

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The Quantum Story: A History in 40 moments. Jim Baggott presents a celebration of this wonderful yet wholly disconcerting theory, with a history told in forty episodes. Almost everything we think we know about the nature of our world comes from one theory of physics. This theory was discovered and refined in the first thirty years of the twentieth century and went on to become quite simply the most successful theory of physics ever devised.

The Quantum Story | Jim Baggott

From its birth in the porcelain furnaces used

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to study black body radiation in 1900, to the promise of stimulating new quantum phenomena to be revealed by CERN's Large Hadron Collider over a hundred years later, this is the extraordinary story of the quantum world.

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The Quantum Story begins in 1900, tracing a century of game-changing science. Popular science writer Jim Baggott first shows how, over the space of three decades, Einstein, Bohr, Heisenberg, and others formulated and refined the theory--and opened the

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Quantum Mechanics as a branch of physics began with a set of scientific discoveries in the late 19th Century and has been in active

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development ever since. Most people will point to the 1980s as the start of physicists actively looking at computing with quantum systems.

TOD Exclusive: The History of Quantum Computing

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From its birth in the porcelain furnaces used

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to study black body radiation in 1900, to the promise of stimulating new quantum phenomena to be revealed by CERN's Large Hadron Collider over a hundred years later, this is the extraordinary story of the quantum world.

Utterly beautiful. Profoundly disconcerting. Quantum theory is quite simply the most successful account of the physical universe ever devised. Its concepts underpin much of the twenty-first century technology that we now take for granted. But at the same time it

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has completely undermined our ability to make sense of the world at its most fundamental level. Niels Bohr claimed that anybody who is not shocked by the theory has not understood it. The American physicist Richard Feynman went further: he claimed that nobody understands it. The Quantum Story begins in 1900, tracing a century of game-changing science. Popular science writer Jim Baggott first shows how, over the space of three decades, Einstein, Bohr, Heisenberg, and others formulated and refined the theory--and opened the floodgates. Indeed, since then, a torrent of ideas has flowed from the world's

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leading physicists, as they explore and apply the theory's bizarre implications. To take us from the story's beginning to the present day, Baggott organizes his narrative around forty turning-point moments of discovery. Many of these are inextricably bound up with the characters involved--their rivalries and their collaborations, their arguments and, not least, their excitement as they sense that they are redefining what reality means. Through the mix of story and science, we experience their breathtaking leaps of theory and experiment, as they uncover such undreamed of and mind-boggling phenomenon as

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black holes, multiple universes, quantum entanglement, the Higgs boson, and much more. Brisk, clear, and compelling, The Quantum Story is science writing at its best. A compelling look at the one-hundred-year history of quantum theory, it illuminates the idea as it reveals how generations of physicists have grappled with this monster ever since.

Still today, it is hard for most of us to comprehend the paradoxical character of quantum theory. Its complex nature can nevertheless be broken down into the most

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important aspects and explained in an intelligible way. This book offers an easily understandable overview of its development and fundamental features and illustrates the origins of quantum theory as we know it today through the contributions of distinguished physicists and scientists over several centuries.

At the end of the nineteenth century, some physicists believed that the basic principles underlying their subject were already known, and that physics in the future would only consist of filling in the details. They could

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hardly have been more wrong. The past century has seen the rise of quantum mechanics, relativity, cosmology, particle physics, and solid-state physics, among other fields. These subjects have fundamentally changed our understanding of space, time, and matter. They have also transformed daily life, inspiring a technological revolution that has included the development of radio, television, lasers, nuclear power, and computers. In *Quantum Generations*, Helge Kragh, one of the world's leading historians of physics, presents a sweeping account of these extraordinary achievements of the past

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one hundred years. The first comprehensive one-volume history of twentieth-century physics, the book takes us from the discovery of X rays in the mid-1890s to superstring theory in the 1990s. Unlike most previous histories of physics, written either from a scientific perspective or from a social and institutional perspective, Quantum Generations combines both approaches. Kragh writes about pure science with the expertise of a trained physicist, while keeping the content accessible to nonspecialists and paying careful attention to practical uses of science, ranging from compact disks to bombs.

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As a historian, Kragh skillfully outlines the social and economic contexts that have shaped the field in the twentieth century. He writes, for example, about the impact of the two world wars, the fate of physics under Hitler, Mussolini, and Stalin, the role of military research, the emerging leadership of the United States, and the backlash against science that began in the 1960s. He also shows how the revolutionary discoveries of scientists ranging from Einstein, Planck, and Bohr to Stephen Hawking have been built on the great traditions of earlier centuries. Combining a mastery of detail with a sure

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sense of the broad contours of historical change, Kragh has written a fitting tribute to the scientists who have played such a decisive role in the making of the modern world.

Lucid, accessible introduction to the influential theory of energy and matter features careful explanations of Dirac's anti-particles, Bohr's model of the atom, and much more. Numerous drawings. 1966 edition.

Einstein and the Quantum reveals for the first time the full significance of Albert

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Einstein's contributions to quantum theory. Einstein famously rejected quantum mechanics, observing that God does not play dice. But, in fact, he thought more about the nature of atoms, molecules, and the emission and absorption of light--the core of what we now know as quantum theory--than he did about relativity. A compelling blend of physics, biography, and the history of science, Einstein and the Quantum shares the untold story of how Einstein--not Max Planck or Niels Bohr--was the driving force behind early quantum theory. It paints a vivid portrait of the iconic physicist as he

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grappled with the apparently contradictory nature of the atomic world, in which its invisible constituents defy the categories of classical physics, behaving simultaneously as both particle and wave. And it demonstrates how Einstein's later work on the emission and absorption of light, and on atomic gases, led directly to Erwin Schrödinger's breakthrough to the modern form of quantum mechanics. The book sheds light on why Einstein ultimately renounced his own brilliant work on quantum theory, due to his deep belief in science as something objective and eternal.

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Theoretical physics is in trouble. At least that's the impression you'd get from reading a spate of recent books on the continued failure to resolve the 80-year-old problem of unifying the classical and quantum worlds. The seeds of this problem were sewn eighty years ago when a dramatic revolution in physics reached a climax at the 1927 Solvay conference in Brussels. It's the story of a rush to formalize quantum physics, the work of just a handful of men fired by ambition, philosophical conflicts and personal agendas. Sheilla Jones paints an intimate portrait of the ten key figures who wrestled with the

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mysteries of the new science of the quantum, along with a powerful supporting cast of famous (and not so famous) colleagues. The Brussels conference was the first time so many of the “quantum ten” had been in the same place: Albert Einstein, the lone wolf; Niels Bohr, the obsessive but gentlemanly father figure; Max Born, the anxious hypochondriac; Werner Heisenberg, the intensely ambitious one; Wolfgang Pauli, the sharp-tongued critic with a dark side; Paul Dirac, the silent Englishman; Erwin Schrödinger, the enthusiastic womanizer; Prince Louis de Broglie, the French

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aristocrat; Pascual Jordan, the ardent Aryan nationalist, who was not invited; and Paul Ehrenfest, who was witness to it all. This is the story of quantum physics that has never been told, an equation-free investigation into the turbulent development of the new science and its very fallible creators, including little-known details of the personal relationship between the deeply troubled Ehrenfest and his dear friend Albert Einstein. Jones weaves together the personal and the scientific in a heartwarming—and heartbreaking—story of the men who struggled to create quantum physics ... a story of

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passion, tragedy, ambition and science.

'This is about gob-smacking science at the far end of reason ... Take it nice and easy and savour the experience of your mind being blown without recourse to hallucinogens'

Nicholas Lezard, Guardian For most people, quantum theory is a byword for mysterious, impenetrable science. And yet for many years it was equally baffling for scientists themselves. In this magisterial book, Manjit Kumar gives a dramatic and superbly-written history of this fundamental scientific revolution, and the divisive debate at its

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core. Quantum theory looks at the very building blocks of our world, the particles and processes without which it could not exist. Yet for 60 years most physicists believed that quantum theory denied the very existence of reality itself. In this tour de force of science history, Manjit Kumar shows how the golden age of physics ignited the greatest intellectual debate of the twentieth century. Quantum theory is weird. In 1905, Albert Einstein suggested that light was a particle, not a wave, defying a century of experiments. Werner Heisenberg's uncertainty principle and Erwin Schrodinger's famous dead-

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and-alive cat are similarly strange. As Niels Bohr said, if you weren't shocked by quantum theory, you didn't really understand it. While "Quantum" sets the science in the context of the great upheavals of the modern age, Kumar's centrepiece is the conflict between Einstein and Bohr over the nature of reality and the soul of science. 'Bohr brainwashed a whole generation of physicists into believing that the problem had been solved', lamented the Nobel Prize-winning physicist Murray Gell-Mann. But in "Quantum", Kumar brings Einstein back to the centre of the quantum debate. "Quantum" is the

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essential read for anyone fascinated by this complex and thrilling story and by the band of brilliant men at its heart.

Most of us are unaware of how much we depend on quantum mechanics on a day-to-day basis. Using illustrations and examples from science fiction pulp magazines and comic books, *The Amazing Story of Quantum Mechanics* explains the fundamental principles of quantum mechanics that underlie the world we live in. [Watch a Video](#)

How-- and how pervasively-- quantum mechanics

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has entered the general culture is the subject of this book, an engaging, eclectic, and thought-provoking look at the curious, boundlessly fertile intersection of scientific thought and everyday life.

Celebrated for his brilliantly quirky insights into the physical world, Nobel laureate Richard Feynman also possessed an extraordinary talent for explaining difficult concepts to the general public. Here Feynman provides a classic and definitive introduction to QED (namely, quantum electrodynamics), that part of quantum field

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theory describing the interactions of light with charged particles. Using everyday language, spatial concepts, visualizations, and his renowned "Feynman diagrams" instead of advanced mathematics, Feynman clearly and humorously communicates both the substance and spirit of QED to the layperson. A. Zee's introduction places Feynman's book and his seminal contribution to QED in historical context and further highlights Feynman's uniquely appealing and illuminating style.

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