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# EINSTEIN DEFIANT

Genius versus Genius  
in the Quantum Revolution

# Einstein Defiant Genius Versus Genius In The Quantum Revolution

**Ying Liu**



## **Einstein Defiant Genius Versus Genius In The Quantum Revolution:**

Einstein Defiant Edmund Blair Bolles has been hailed as "startlingly eloquent" (The Atlantic Monthly), 2004. *Einstein Defiant* Edmund Blair Bolles, 2004-04-09 I find the idea quite intolerable that an electron exposed to radiation should choose of its own free will not only its moment to jump off but also its direction. In that case I would rather be a cobbler or even an employee in a gaming house than a physicist. Albert Einstein. A scandal hovers over the history of 20th century physics. Albert Einstein, the century's greatest physicist, was never able to come to terms with quantum mechanics, the century's greatest theoretical achievement. For physicists who routinely use both quantum laws and Einstein's ideas, this contradiction can be almost too embarrassing to dwell on. Yet Einstein was one of the founders of quantum physics and he spent many years preaching the quantum's importance and its revolutionary nature. The Danish genius Niels Bohr was another founder of quantum physics. He had managed to solve one of the few physics problems that Einstein ever shied away from: linking quantum mathematics with a new model of the atom. This leap immediately yielded results that explained electron behavior and the periodic table of the elements. Despite their mutual appreciation of the quantum's importance, these two giants of modern physics never agreed on the fundamentals of their work. In fact, they clashed repeatedly throughout the 1920s, arguing first over Einstein's theory of light quanta (photons) then over Niels Bohr's short-lived theory that denied the conservation of energy at the quantum level and climactically over the new quantum mechanics that Bohr enthusiastically embraced and Einstein stubbornly defied. This contest of visions stripped the scientific imagination naked. Einstein was a staunch realist demanding to know the physical reasons behind physical events. At odds with this approach was Bohr's more pragmatic perspective that favored theories that worked even if he might not have a corresponding explanation of the underlying reality. Powerful and illuminating, *Einstein Defiant* is the first book to capture the soul and the science that inspired this dramatic duel, revealing the personalities and the passions and, in the end, what was at stake for the world.

**Einstein Defiant** Edmund Blair Bolles, 2004-05-09 I find the idea quite intolerable that an electron exposed to radiation should choose of its own free will not only its moment to jump off but also its direction. In that case I would rather be a cobbler or even an employee in a gaming house than a physicist. Albert Einstein. A scandal hovers over the history of 20th century physics. Albert Einstein, the century's greatest physicist, was never able to come to terms with quantum mechanics, the century's greatest theoretical achievement. For physicists who routinely use both quantum laws and Einstein's ideas, this contradiction can be almost too embarrassing to dwell on. Yet Einstein was one of the founders of quantum physics and he spent many years preaching the quantum's importance and its revolutionary nature. The Danish genius Niels Bohr was another founder of quantum physics. He had managed to solve one of the few physics problems that Einstein ever shied away from: linking quantum mathematics with a new model of the atom. This leap immediately yielded results that explained electron behavior and the periodic table of the elements. Despite their mutual appreciation of the quantum's importance,

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The Story of Science: Einstein Adds a New Dimension Joy Hakim, 2016-04-26 In volume three students will look over Albert Einstein's shoulder as he and his colleagues develop a new kind of physics It leads in two directions to knowledge of the vast universe and its future insights build on Einstein's theories of relativity and to an understanding of the astonishingly small subatomic world the realm of quantum physics Students will learn why relativity and quantum theory revolutionized our world and led to the most important ideas in modern science maybe of all time In the three book The Story of Science series master storyteller Joy Hakim narrates the evolution of scientific thought from ancient times to the present With lively character driven narrative Hakim spotlights the achievements of some of the world's greatest scientists and encourages a similiar spirit of inquiry in readers The books include hundreds of color photographs charts maps and diagrams informative sidebars suggestions for further reading and excerpts from the writings of great scientists

**The Solvay Science Project And The First Quantum Revolution** Franklin Lambert, Alessio Rocci, 2025-07-25 This book presents a historical reconstruction of the first quantum revolution from the first Solvay meeting 1911 to the fifth Physics Council 1927 The reader is guided through a journey to discover how a project envisioned by Ernest Solvay the Solvay Science Project contributed to this process The authors investigate two of its main aspects the five Physics Councils chaired by H A Lorentz and the subsidy programme of the International Solvay Institute of Physics ISIP Special attention is given to a point that escaped the attention of most science historians how Solvay subsidies granted by an International Committee contributed to the validation of Bohr's atomic theory one of the most significant steps in the quantum revolution More than ten beneficiaries of Solvay grants were named by Bohr in his Rutherford Memorial Lecture six were awarded a Nobel Prize The book contains a detailed analysis of the steps taken by ISIP's Scientific Committee to prepare the Councils that marked the transition from classical to quantum physics Emphasis is placed on the information provided by X ray research and by C T R Wilson's cloud chamber two elements that paved the way to a recognition of the dual nature of light and matter a fundamental characteristic of the quantum world

**Spooky Physics**, *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 *Einstein and the Quantum* A. Douglas Stone, 2015-10-06 The untold story of Albert Einstein's role as the father of quantum theory Einstein and the Quantum reveals for the first time the full significance of Albert 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 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 **The Promethean Illusion** Bob Tostevin, 2014-01-10 This book explores two contradictory realities our continuing belief that nature is subject to our willful control and nature's refusal to abide by this belief It investigates particular aspects of modern science and spotlights the impact Newtonian science had upon the Western world It then critically assesses twentieth century developments in science presenting a number of biological and ecological case studies that document the various limitations that the natural world places upon human knowledge The analysis argues against programmatic proposals to control nature via genetic engineering and planet management *Einstein* Walter Isaacson, 2008-05-13 From Isaacson the bestselling author of Benjamin Franklin comes the first full biography of Albert Einstein since all his papers have become available a fully realized portrait of a premier icon of his era **Walter Isaacson Great Innovators e-book boxed set** Walter Isaacson, 2011-10-24 This includes the exclusive biography of Steve Jobs and bestselling biographies Benjamin Franklin and Einstein **Quantum Mechanics Ñ What is wrong with it and how to fix it** Janeen Hunt, 2007-01-01 This book contains much of the lost history of the development of quantum mechanics The theory is controversial This book explains why by going to the very foundations of Quantum Mechanics directly from the mouths of its inventors the honored and famous scientists It is a telling exposé and a serious but almost irreverent treatment of atomic science that tacitly suggests outright fraud blind denial of facts and overly enthusiastic adoption of slanted interpretations of data Although written for those familiar with quantum mechanics it is not written as a technical article but informally for the educated reader It is hard hitting and controversial but researched and well referenced with over 200 quotations from 97 sources Using historical

quotations by the founders of QM this book suggests that a different theory of the atom can be and should have been introduced without resorting to assumptions that defy evidence and deny rationality but rather relying on existing empirical data

**Bertrand Russell and Albert Einstein - Builders of Peace** Claudio Giulio Anta, Bertrand Russell and Albert Einstein had very different cultural backgrounds and personalities At the same time they were united in their tenacious battle for peace it began with the Great War and culminated in their famous 1955 Manifesto Through various kinds of pacifism they sought to encapsulate the dilemmas and problems that derived from the changed political conditions of his time the beginning of the Great War the creation and failure of the League of Nations the affirmation of totalitarian regimes the outbreak of the Second World War the origin of the atomic age and the escalation of the Cold War the establishment of the UN with its political and institutional weakness and the need for a world government in the form of a world federation Their reflections on the subject of peace led them into dialogue with some of the greatest figures of their time R Rolland Th Woodrow Wilson V I Lenin F D Roosevelt J F Kennedy N Khrushchev F Castro S Freud L Szil rd and E Reves **Albert Einstein** Lisa Wade McCormick, 2014-07-15 Albert Einstein s biography encompasses danger romance and a secret government project that could have destroyed the world Readers discover that Einstein was defined not only by his equation  $E=mc^2$  and scientific theories that rewrote views of time energy and the universe but also by his speaking out against prejudice and segregation This absorbing narrative includes Einstein s work at Princeton s Institute for Advanced Study and his letter to President Franklin Roosevelt warning about Nazi nuclear weapons research and urging Roosevelt to support nuclear research in America A man of peace Einstein later admitted that this letter was his one great mistake **Nature's Hidden Force** George Land, Beth Jarman, 2014-07-30 A stunning new take on the old science vs spirituality debate Land and Jarman begin by demolishing one of the sacred cows of physics entropy the idea that the universe is irreversibly headed toward a whimpering heat death Using rigorous scientific methods they show that the universe isn t falling apart after all it s getting better all the time They next take on Einstein s theory of relativity explaining in simple terms how quantum mechanics describes a universe that isn t a giant clockwork but something far more profound a combination of past cause and Future Pull What does all this science have to do with spirituality Everything Land and Jarman label nature s impulse for overcoming entropy and pulling us into the future Creative Connecting A force as scientifically real and demonstrable as gravity and far more worthy of reverence than any ghost dreamed up by an ancient religion Think of your most memorable moments of deep spirituality watching a sunset being moved by music That powerful feeling you experience is being at one with the universe In other words a sense of connecting What s the best part of religious teaching Love thy neighbor more connecting Land and Jarman prove that you don t have to give up on science to be truly spiritual you just have to get it right And you don t have to be ashamed of your spiritual side if you want to live your life according to empirical reality you just have to revere the force in nature that really exists *The Quantum Ten* Sheilla Jones, 2014-03-31 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 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 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 passion tragedy ambition and science      *Quirks of the Quantum* Samuel Coale,2012 Episodic and disconnected much of postmodern fiction mirrors the world as quantum theorists describe it according to Samuel Chase Coale In *Quirks of the Quantum* Coale shows how the doubts misgivings and ambiguities reflected in the postmodern American novel have been influenced by the metaphors and models of quantum theory Coale explains the basic facets of quantum theory in lay terms and then applies them to a selection of texts including Don DeLillo's *Underworld* Joan Didion's *Democracy* and Thomas Pynchon's *Against the Day* Using a new approach to literature and culture this book aims to bridge the gap between science and the humanities by suggesting the many areas where they connect      *Amazing Grace of Quantum Physics* Dillard W. Faries,2017-11-07 Science and faith have had a long intertwined history The relationship has run the gamut from a total disconnect to an adversarial battleground where proponents of each claim total victory However if God created the physical world and remains active in the physical world we cannot ignore the interaction nor can we assume or expect a world of conflict While nineteenth century physics brought classical physics which quite reasonably divorced God and nature to a culmination twentieth century physics especially quantum physics has opened a new realm of possible interactions Even though one can reasonably say that no one understands quantum physics the fruits of the discipline overflow the cornucopia People of faith can share the feast and people of science are welcome at the table of faith

**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.

### **Liberating Sociology: From Newtonian Toward Quantum Imaginations: Volume 1: Unriddling the Quantum Enigma**

Mohammad H. Tamdgidi, 2020-01-20. In this major new study in the sociology of scientific knowledge, social theorist Mohammad H. Tamdgidi reports having unriddled the so-called quantum enigma. This book opens the lid of the Schrödinger's Cat box of the quantum enigma after decades and finds something both odd and familiar. Not only the cat is both alive and dead; it has morphed into an elephant in the room in whose interpretation Einstein, Bohr, Bohm, and others were each both right and wrong because the enigma has acquired both localized and spread-out features whose unriddling requires both physics and sociology amid both transdisciplinary and transcultural contexts. The book offers in a transdisciplinary and transcultural sociology of self-knowledge framework a relativistic interpretation to advance a liberating quantum sociology. Deeper methodological grounding to further advance the sociological imagination requires investigating whether and how relativistic and quantum scientific revolutions can induce a liberating reinvention of sociology in favor of creative research and a just global society. This however necessarily leads us to confront an elephant in the room: the quantum enigma. In *Unriddling the Quantum Enigma*, the first volume of the series commonly titled *Liberating Sociology: From Newtonian toward Quantum Imaginations*, sociologist Mohammad H. Tamdgidi argues that unriddling the quantum enigma depends on whether



and how we succeed in dehabituating ourselves in favor of unified relativistic and quantum visions from the historically and ideologically inherited classical Newtonian modes of imagining reality that have subconsciously persisted in the ways we have gone about posing and interpreting or not the enigma itself for more than a century. Once this veil is lifted and the enigma unriddled, he argues, it becomes possible to reinterpret the relativistic and quantum ways of imagining reality including social reality in terms of a unified nonreductive creative dialectic of part and whole that fosters quantum sociological imaginations, methods, theories, and practices favoring liberating and just social outcomes. The essays in this volume develop a set of relativistic interpretive solutions to the quantum enigma. Following a survey of relevant studies and an introduction to the transdisciplinary and transcultural sociology of self-knowledge framing the study, overviews of Newtonianism, relativity, and quantum scientific revolutions, the quantum enigma and its main interpretations to date are offered. They are followed by a study of the notion of the wave-particle duality of light and the various experiments associated with the quantum enigma in order to arrive at a relativistic interpretation of the enigma, one that is shown to be capable of critically cohering other offered interpretations. The book concludes with a heuristic presentation of the ontology, epistemology, and methodology of what Tamdgidi calls the creative dialectics of reality. The volume's essays involve critical comparative integrative reflections on the relevant works of founding and contemporary scientists and scholars in the field. This study is the first in the monograph series *Tayyebeh Series in East-West Research and Translation of Human Architecture*, *Journal of the Sociology of Self-Knowledge* XIII 2020, published by OKCIR, Omar Khayyam Center for Integrative Research in Utopia, Mysticism, and Science. Utopistics, OKCIR is dedicated to exploring in a simultaneously world-historical and self-reflective framework the human search for a just global society. It aims to develop new conceptual, methodological, theoretical, historical, practical, pedagogical, inspirational, and disseminative structures of knowledge whereby the individual can radically understand and determine how world history and her/his selves constitute one another. *Reviews* Mohammad H. Tamdgidi, *s Liberating Sociology: From Newtonian Toward Quantum Imaginations*, Volume 1, *Unriddling the Quantum Enigma* hits the proverbial nail on the head of an ongoing problem not only in sociology but also much social science: namely, many practitioners' allegiance, consciously or otherwise, to persisting conceptions of science that get in the way of scientific and other forms of theoretical advancement. Newtonianism has achieved the status of an idol, and its methodology, a fetish, the consequence of which is an ongoing failure to think through important problems of uncertainty, indeterminacy, multivariation, multidisciplinary, and false dilemmas of individual agency versus structure among many others. Tamdgidi has done great service to social thought by bringing to the fore this problem of disciplinary decadence and offering in effect a call for its teleological suspension, thinking beyond disciplinaryity through drawing upon and communicating with the resources of quantum theory not as a fetish but instead as an opening for other possibilities of social, including human, understanding. The implications are far-reaching as they offer, as the main title attests, liberating sociology from persistent epistemic shackles.

and thus many disciplines and fields connected to things social This is exciting work A triumph The reader is left with enthusiasm for the second volume and theorists of many kinds with proverbial work to be done Professor Lewis R Gordon Honorary President of the Global Center for Advanced Studies and author of *Disciplinary Decadence Living Thought in Trying Times* Routledge Paradigm 2006 and *Freedom Justice and Decolonization* Routledge forthcoming 2020 Social sciences are still using metatheoretical models of science based on 19th century newtonian concepts of time and space Mohammad H Tamdgidi has produced a tour de force in social theory leaving behind the old newtonian worldview that still informs the social sciences towards a 21st century non dualistic non reductionist transcultural transdisciplinary post Einsteinian quantum concept of TimeSpace Tamdgidi goes beyond previous efforts done by titans of social theory such as Immanuel Wallerstein and Kyriakos Kontopoulos This book is a quantum leap in the social sciences at large Tamdgidi decolonizes the social sciences away from its Eurocentric colonial foundations bringing it closer not only to contemporary natural sciences but also to its convergence with the old Eastern philosophical and mystical worldviews This book is a masterpiece in social theory for a 21st century decolonial social science A must read Professor Ramon Grosfoguel University of California at Berkeley Tamdgidi's *Liberating Sociology* succeeds in adding physical structures to the breadth of the world changing vision of C Wright Mills the man who mentored me at Columbia Relativity theory and quantum mechanics can help us to understand the human universe no less than the physical universe Just as my *Creating Life Before Death* challenges bureaucracy's conformist orientation so does *Liberating Sociology* liberate the infinite possibilities inherent in us Given our isolation in the Coronavirus era we have time to follow Tamdgidi in his journey into the depth of inner space where few men have gone before It is there that we can gain emotional strength just as Churchill Roosevelt and Mandela empowered themselves That personal development was needed to address not only their own personal problems but also the mammoth problems of their societies We must learn to do the same Bernard Phillips Emeritus Sociology Professor Boston University

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