

The Infamous Boundary: Seven Decades of Controversy in Quantum Physics

Wick, David

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The Infamous Boundary Seven Decades Of Controversy In Quantum Physics

Karin Nielsen-Saines



The Infamous Boundary Seven Decades Of Controversy In Quantum Physics:

The Infamous Boundary David Wick,1998-07-27 Provides an accurate portrait of the essence of the disputes both epistemological and technical that characterize contemporary inquiry This book will profit any reader physicist mathematician philosopher or civilian who wants a comprehensive and intelligible survey of this pesky episode in fundamental physical theory CHOICE I have no hesitation in recommending this book to anyone interested in the history philosophy or sociology of science and it is worth adding to the library shelf on quantum theory PHYSICS WORLD **The Infamous Boundary** David Wick,2014-09-01 **The Infamous Boundary** David Wick,2012-12-06 Although quantum mechanics has predicted an extraordinary range of phenomena with unprecedented accuracy it remains controversial Bohr and Heisenberg pronounced it a complete theory in 1927 but Einstein never accepted it and as late as 1989 John Bell charged it with dividing the world of physics David Wick traces the history of this controversy and shows how it affects our very conception of what a scientific theory is all about **Religion, Neuroscience and New Physics in Dialogue** Darren Marks,2021-08-03 Can we live with being merely a brain with a history of being souls Can our supra nature learnt in the crucible of religion and expressed in theology survive without being exiled to the quantum mysteries of consciousness Our very survival depends on these questions being answered and in a manner by which a non expert can understand The book explores these ideas and posits how we might be able to understand ourselves as merely brain without the confusion of pixie dust in the nanotubules reorienting ourselves to the idea of Nature and our humane ethical response By looking at the challenge of neuroscience to identity and our souls the book explores the tension of being scientific and theological and helps guide the reader to what can be said by either front in our axial age *Lectures on Quantum Mechanics* Philip L. Bowers,2020-09-17 A leisurely but mathematically honest presentation of quantum mechanics for graduate students in mathematics with an interest in physics *Realistic Interpretation of Quantum Mechanics* Emilio Santos Corchero,2022-02-02 According to Einstein a physical theory should offer a picture of reality This made him frustrated and dissatisfied with the standard interpretation or lack thereof of quantum theory since attempts to get a picture from it soon led to contradictions like the wave particle duality This book provides such a picture of the quantum world that is a realistic interpretation Of course this needs to be done in a way that is compatible with today s experimental evidence including the experiments that seem to contradict local realism The book also offers a personal view on the meaning of general relativity and its relation with quantum mechanics proposing a new perspective for dark energy dark matter and stellar collapse It is the result and a summary of the author s extensive research on the foundations of quantum mechanics spanning more than 50 years *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 Probability, Information, And Physics: Problems With Quantum Mechanics In The Context Of A Novel Probability Theory Paolo Rocchi, 2023-08-29 This book deals with two main topics The first is a theory that aims to unify the many interpretations of probability presented in the literature The second uses this comprehensive theory of probability to answer the questions of quantum mechanics that have long been debated The entire book proposes original solutions that several experimental cases substantiate Quantum Sense and Nonsense Jean Bricmont, 2017-10-27 Permeated by the author's delightful humor this little book explains with nearly no mathematics the main conceptual issues associated with quantum mechanics The issue of determinism Does quantum mechanics signify the end of a deterministic world view The role of the human subject or of the observer in science Since Copernicus science has increasingly tended to dethrone Man from his formerly held special position in the Universe But quantum mechanics with its emphasis on the notion of observation may once more have given a central role to the human subject The issue of locality Does quantum mechanics imply that instantaneous actions at a distance exist in Nature In these pages the author offers a variety of views and answers bad as well as good to these questions The reader will be both entertained and enlightened by Jean Bricmont's clear and incisive arguments 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

Touch Laura U. Marks, 2002 In *Touch* Laura U Marks develops a critical approach more tactile than visual an intensely physical and sensuous engagement with works of media art that enriches our understanding and experience of these works and of art itself These critical theoretical and personal essays serve as a guide to developments in nonmainstream media art during the past ten years sexual representation debates documentary ethics the shift from analog to digital media a new social obsession with smell Marks takes up well known artists like experimental filmmaker Ken Jacobs and mysterious animators the Brothers Quay and introduces groundbreaking lesser known film video and digital artists From this emerges a materialist theory an embodied erotic relationship to art and to the world Marks's approach leads to an appreciation of the works mortal bodies film's volatile emulsion video's fragile magnetic base crash prone Net art it also offers a productive alternative to the popular understanding of digital media as virtual and immaterial Weaving a continuous fabric from philosophy fiction science dreams and intimate experience *Touch* opens a new world of art media to readers Escape from Shadow Physics Adam Kay, 2024-06-18 The artfully written splendid history of classical and quantum physics Science that rightfully highlights the limitations of current physics Wall Street Journal and argues for a revolutionary new understanding

of quantum mechanics The received wisdom in quantum physics is that at the deepest levels of reality there are no actual causes for atomic events This idea led to the outlandish belief that quantum objects indeed reality itself aren't real unless shaped by human measurement Einstein mocked this idea asking whether his bed spread out across his room unless he looked at it And yet it remains one of the most influential ideas in science and our culture In *Escape from Shadow Physics* Adam Forrest Kay takes up Einstein's torch reality isn't mysterious or dependent on human measurement but predictable and independent of us At the heart of his argument is groundbreaking research with little drops of oil These droplets behave as particles do in the long overlooked quantum theory of pilot waves crucially they showcase quantum behavior while being described by classical physics And that classical quantum interface points to a true understanding of quantum mechanics and a reasonable universe A bold and essential reset of the field *Escape from Shadow Physics* describes the kind of true scientific revolution that comes along just once or less in a century

Quantum Physics for Poets Leon M. Lederman, Christopher T. Hill, 2024-08-06 Quantum theory is the bedrock of contemporary physics and the basis of understanding matter in its tiniest dimensions and the vast universe as a whole But for many the theory remains an impenetrable enigma Now two physicists seek to remedy this situation by both drawing on their scientific expertise and their talent for communicating science to the general reader In this lucid informative book designed for the curious Lederman and Hill make the seemingly daunting subject of quantum physics accessible appealing and exciting Their story is partly historical covering the many Eureka moments when great scientists Max Planck Albert Einstein Niels Bohr Werner Heisenberg Erwin Schrödinger and others struggled to come to grips with the bizarre realities that quantum research revealed Although their findings were indisputably proven in experiments they were so strange and counterintuitive that Einstein refused to accept quantum theory despite its great success The authors explain the many strange and even eerie aspects of quantum reality at the subatomic level from particles that can be many places simultaneously and sometimes act more like waves to the effect that a human can have on their movements by just observing them Finally the authors delve into quantum physics latest and perhaps most breathtaking offshoots field theory and string theory The intricacies and ramifications of these two theories will give the reader much to ponder In addition the authors describe the diverse applications of quantum theory in its almost countless forms of modern technology throughout the world Using eloquent analogies and illustrative examples *Quantum Physics for Poets* renders even the most profound reaches of quantum theory understandable and something for us all to savor

The New Quantum Age Andrew Whitaker, 2012 A clear account of what has been discovered in recent years about quantum theory its counterintuitive features non locality indeterminism intrinsic uncertainty and what it tells us about the universe The book also explains how these ideas have led to a new subject of limitless possibilities quantum information theory

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 unlikely heroes could break the science world out of its rut

Seeking Ultimates Peter T. Landsberg, 2019-04-30 Seeking Ultimates An Intuitive Guide to Physics Second Edition takes us on a journey that explores the limits of our scientific knowledge emphasizing the gaps that are left The book starts with everyday concepts such as temperature and proceeds to energy the Periodic Table and then to more advanced ideas The author examines the nature of time

John Stewart Bell and Twentieth-Century Physics Andrew Whitaker, 2016-07-07 John Stewart Bell 1928-1990 was one of the most important figures in twentieth century physics famous for his work on the fundamental aspects of the century's most important theory quantum mechanics While the debate over quantum theory between the supremely famous physicists Albert Einstein and Niels Bohr appeared to have become sterile in the 1930s Bell was able to revive it and to make crucial advances Bell's Theorem or Bell's Inequalities He was able to demonstrate a contradiction between quantum theory and essential elements of pre quantum theory locality and causality The book gives a non mathematical account of Bell's relatively impoverished upbringing in Belfast and his education It describes his major contributions to quantum theory but also his important work in the physics of accelerators and nuclear and elementary particle physics

Quantum (Un)speakables R.A. Bertlmann, A. Zeilinger, 2013-11-11 issues raised by quantum theory a topic not very popular during his student days at Queen's University Belfast Apparently John Bell who had been interested in the Bohr Einstein dialogue always took the position of Albert Einstein on philosophical issues He also felt that a completion of quantum mechanics using so called hidden variables would be highly desired as it would help to regain a

realistic and objective picture of the world That way Bell hoped one would be able to arrive at a physics where measurement would not play such a central role as in the Copenhagen interpretation of quantum mechanics Then a most interesting sequence of events set in In 1952 David Bohm had achieved something which had earlier been proclaimed impossible It had been proved by John von Neumann that no hidden variable theory could agree with quantum mechanics Bohm actually formulated such a theory where each particle at any time has both a well defined position and a well defined momentum The conflict raised between von Neumann and Bohm was elegantly resolved by Bell who showed that von Neumann's proof contained a physically unjustifiable assumption So while John Bell had flung open the door widely for hidden variable theories he immediately dealt them a major blow In 1964 in his celebrated paper On the Einstein Podolsky Rosen Paradox he showed that any hidden variable theory which obeys Einstein's requirement of locality i e *Electromagnetic and Quantum Measurements* Tore Wessel-Berg, 2013-11-27 It is a pleasure to write a foreword for Professor Tore Wessel Berg's book *Electromagnetic and Quantum Measurements A Bitemporal Neoclassical Theory* This book appeals to me for several reasons The most important is that in this book Wessel Berg breaks from the pack The distinguished astrophysicist Thomas Gold has written about the pressures on scientists to move in tight formation to avoid having their legs nipped by the sheepdogs of science This book demonstrates that Wessel Berg is willing to take that risk I confess that I do not sufficiently understand this book to be able to either agree or disagree with its thesis Nevertheless Wessel Berg makes very cogent arguments for setting out on his journey The basic equations of physics are indeed time reversible Our experience that leads us to the concept of an arrow of time is derived from macroscopic phenomena not from fundamental microscopic phenomena For this reason it makes very good sense to explore the consequences of treating microscopic phenomena on the assumption that forward time and backward time are equal **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

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