

DAVID KAISER

# HOW THE HIPPIES SAVED PHYSICS

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Science, Counterculture, and the Quantum Revival

# How The Hippies Saved Physics

**Lee Smolin**



## **How The Hippies Saved Physics:**

**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.

**Quantum Language and the Migration of Scientific Concepts** Jennifer Burwell, 2018-02-16

How highly abstract quantum concepts were represented in language and how these concepts were later taken up by philosophers, literary critics, and new age gurus. The principles of quantum physics and the strange phenomena they describe are represented most precisely in highly abstract algebraic equations. Why then did these mathematically driven concepts compel founders of the field, particularly Erwin Schrödinger, Niels Bohr, and Werner Heisenberg, to spend so much time reflecting on ontological, epistemological, and linguistic concerns? What is it about quantum concepts that appeals to latter-day Eastern mystics, poststructuralist critics, and get-rich-quick schemers? How did their interpretations and misinterpretations of quantum phenomena reveal their own priorities? In this book, Jennifer Burwell examines these questions and considers what quantum phenomena in the context of the founders' debates over how to describe them reveal about the relationship between everyday experience, perception, and language. Drawing on linguistic, literary, and philosophical traditions, Burwell illuminates representational and linguistic problems posed by quantum concepts, the fact, for example, that quantum phenomena exist only as probabilities or tendencies toward being and cannot be said to exist in a particular time and place. She traces the

emergence of quantum theory as an analytic tool in literary criticism in particular the use of wave particle duality in interpretations of gender differences in the novels of Virginia Woolf and critics connection of Bohr's Principle of Complementarity to poetic form she examines the quantum mysticism of Fritjof Capra and Gary Zukav and she concludes by analyzing nuclear discourse in the context of quantum concepts arguing that it too adopts a language of the unthinkable and the indescribable

*Fault Lines* Gus diZerega, 2013-10-14 The United States is suffering its greatest upheaval since the Civil War politically economically socially religiously With elegant sweeping vision Gus diZerega explores the complex causes leading us to this point comparing them to giant fault lines that when they erupt create enormous disturbance and in time new landscapes He traces the disruption first to America's first countercultural movement originating in the antebellum South and coming into later conflict with the counterculture of the 60s that continues now in phenomena like Burning Man and second to the crumbling of the moral foundation birthed by the Enlightenment leading to today's nihilism But within the loss resides hope diZerega sees promise of a new society based more in equality sacred feminine values and spiritual immanence Whether the prevailing oligarchy will abort this transformation is the question of our time This book enables those of us now living through it to understand the powerful forces shaping our lives and calling on us for a response

*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

**The Oxford Handbook of the History of Quantum Interpretations** Guido Bacciagaluppi, Olivier Darrigol, Thiago Hartz, Christian Joas, Alexei Kojevnikov, 2022 This Oxford Handbook provides a rigorous interdisciplinary review of the history of interpretations of quantum physics presenting the key controversies within the field as well as outlining its successes and its extraordinary potential across various scientific fields

**Mysticism and Meaning: Multidisciplinary Perspectives** Alex S. Kohav, 2019 The volume investigates the question of meaning of mystical phenomena and conversely queries the concept of meaning itself via insights afforded by mystical experiences The collection brings together researchers from such disparate fields as philosophy psychology history of religion cognitive poetics and semiotics in an effort to ascertain the question of mysticism's meaning through pertinent up to date multidisciplinary The discussion commences with Editor's Introduction that probes persistent questions of complexity as well as perplexity of mysticism and the reasons why problematizing mysticism leads to even greater enigmas One thread within the volume provides the contextual framework for continuing fascination of mysticism that includes a consideration of several historical traditions as well as personal accounts

of mystical experiences Two contributions showcase ancient Egyptian and ancient Israelite involvements with mystical alterations of consciousness and Christianity's origins being steeped in mystical praxis and four essays highlight mysticism's formative presence in Chinese traditions and Tibetan Buddhism as well as medieval Judaism and Kabbalah mysticism A second more overarching strand within the volume is concerned with multidisciplinary investigations of the phenomenon of mysticism including philosophical psychological cognitive and semiotic analyses To this effect the volume explores the question of philosophy's relation to mysticism and vice versa together with a Wittgensteinian nexus between mysticism facticity and truth language mysticism and supernormal meaning engendered by certain mystical states cognitive poetic analysis of mystical poetry and a semiotic scrutiny of some mystical experiences and their ineffability Finally the volume includes an assessment of the so called New Age authors contention of the convergence of scientific and mystical claims about reality The above two tracks are appended with personal contemporary accounts of mystical experiences in the Prologue and a futuristic envisioning as a fictitious chronicle from the time to come of life without things mystical in the Postscript The volume contains fourteen chapters its international contributors are based in Canada Israel United Kingdom and the United States

**God Is Dead, Long Live the Gods** Gus diZerega, 2020-06-08 Powerful New Perspectives on the Integration of Science and Spirit Examining the relationship between polytheism and quantum physics biology and ecology can open new vistas of sacred discovery God Is Dead Long Live the Gods develops a bold new vision for polytheism's evolving role in our society and in our individual and collective spiritual experiences Join author Gus diZerega as he explores contemporary science to show why consciousness is a fundamental aspect of reality and why polytheistic experiences are as varied as the vast array of living organisms that enrich our world This book shows why monotheism is actually a form of polytheism and it explores fascinating spiritual concepts such as thought forms mystical experiences shamanism spiritual healing and universal love Whether you're interested in the mind bending implications of emergence theory or want to know if the universe is alive you will discover transformative answers and a new integration of science and spirituality

Einstein's Unfinished Revolution Lee Smolin, 2019-04-09 A daring new vision of quantum theory from one of the leading minds of contemporary physics Quantum physics is the golden child of modern science It is the basis of our understanding of atoms radiation and so much else from elementary particles and basic forces to the behavior of materials But for a century it has also been the problem child of science it has been plagued by intense disagreements between its inventors strange paradoxes and implications that seem like the stuff of fantasy Whether it's Schrödinger's cat a creature that is simultaneously dead and alive or a belief that the world does not exist independently of our observations of it quantum theory challenges our fundamental assumptions about reality In Einstein's Unfinished Revolution theoretical physicist Lee Smolin provocatively argues that the problems which have bedeviled quantum physics since its inception are unsolved and unsolvable for the simple reason that the theory is incomplete There is more to quantum physics waiting to be discovered Our task if we are to

have simple answers to our simple questions about the universe we live in must be to go beyond quantum mechanics to a description of the world on an atomic scale that makes sense In this vibrant and accessible book Smolin takes us on a journey through the basics of quantum physics introducing the stories of the experiments and figures that have transformed our understanding of the universe before wrestling with the puzzles and conundrums that the quantum world presents Along the way he illuminates the existing theories that might solve these problems guiding us towards a vision of the quantum that embraces common sense realism If we are to have any hope of completing the revolution that Einstein began nearly a century ago we must go beyond quantum mechanics to find a theory that will give us a complete description of nature In Einstein's Unfinished Revolution Lee Smolin brings us a step closer to resolving one of the greatest scientific controversies of our age

Real Quanta Martijn van Calmthout, 2018-01-06 Albert Einstein and Niels Bohr walk into the famous Hotel Metropole and sit down at the author's table to discuss the state of quantum mechanics today Particles that exist in two places at once consequences that occur without a cause objects that exist only if you look at them quantum mechanics proves that all of this is possible and not just in dark science labs Look no further than your smartphone or tablet for technology made conceivable by quantum theory From quantum computers to teleporting data medicine to photosynthesis and the quantum compass in some migratory birds Martijn van Calmthout plainly explains to his readers and to an astounded Einstein and Bohr how Quantum 2.0 is increasingly part of everyone's daily life Rather than being the exceptional domain Van Calmthout shows how quantum mechanics is actually part of our tangible world and may even be the very crux of our existence

*Dark Pool of Light: The neuroscience, evolution, and ontology of consciousness* Richard Grossinger, 2012 In books like *Embryogenesis and Embryos* *Galaxies and Sentient Beings* author Richard Grossinger brought together the subjects of biological embryology and the esoteric process of human consciousness becoming embodied The embryo is the universe writing itself on its own body In *Dark Pool of Light* his latest creation Grossinger weaves neuroscience based behaviorism and the phenomenology of being and reality together with psychological and psychospiritual views of that single thing which is most difficult to understand or vindicate our own existence In 2008 Grossinger began studying with noted psychic teacher John Friedlander who helped him refine his vision of cerebral and somatic awareness to still subtler levels *Dark Pool of Light* began unnamed in the journals of my psychic work with John Friedlander says Grossinger not so much a record of actual practices as insights from them and extensions out of them An expansive inquiry into the nature of consciousness the series examines the tension between the scientific and philosophical and psychic views of the same phenomena and includes field notes and experiential exercises that invite the reader to make their own explorations *Dark Pool of Light* is divided into three volumes which the author calls movements the allusion to music is apt for the book unfolds in a truly symphonic manner In Volume 1 Grossinger begins with the scientific and philosophical analytical views of reality exploring the science parascience philosophy and psychology of consciousness Covering topics as diverse as current discoveries in neuroscience and the

philosophy of the ancient Greeks the book gives a broad overview of the bodies of knowledge concerning the nature of reality and consciousness      *Dark Pool of Light, Volume One* Richard Grossinger,2012-08-21 In books like Embryogenesis and Embryos Galaxies and Sentient Beings author Richard Grossinger brought together the subjects of biological embryology and the esoteric process of human consciousness becoming embodied The embryo is the universe writing itself on its own body In Dark Pool of Light his latest creation Grossinger weaves neuroscience based behaviorism and the phenomenology of being and reality together with psychological and psychospiritual views of that single thing which is most difficult to understand or vindicate our own existence In 2008 Grossinger began studying with noted psychic teacher John Friedlander who helped him refine his vision of cerebral and somatic awareness to still subtler levels Dark Pool of Light began unnamed in the journals of my psychic work with John Friedlander says Grossinger not so much a record of actual practices as insights from them and extensions out of them An expansive inquiry into the nature of consciousness the series examines the tension between the scientific and philosophical and psychic views of the same phenomena and includes field notes and experiential exercises that invite the reader to make their own explorations Dark Pool of Light is divided into three volumes which the author calls movements the allusion to music is apt for the book unfolds in a truly symphonic manner In Volume 1 Grossinger begins with the scientific and philosophical analytical views of reality exploring the science parascience philosophy and psychology of consciousness Covering topics as diverse as current discoveries in neuroscience and the philosophy of the ancient Greeks the book gives a broad overview of the bodies of knowledge concerning the nature of reality and consciousness      **Dark Pool of Light 3 Volume Set** Richard Grossinger,2012-12-18 In books like Embryogenesis and Embryos Galaxies and Sentient Beings author Richard Grossinger brought together the subjects of biological embryology and the esoteric process of human consciousness becoming embodied The embryo is the universe writing itself on its own body In Dark Pool of Light his latest creation Grossinger weaves neuroscience based behaviorism and the phenomenology of being and reality together with psychological and psychospiritual views of that single thing which is most difficult to understand or vindicate our own existence In 2008 Grossinger began studying with noted psychic teacher John Friedlander who helped him refine his vision of cerebral and somatic awareness to still subtler levels Dark Pool of Light began unnamed in the journals of my psychic work with John Friedlander says Grossinger not so much a record of actual practices as insights from them and extensions out of them An expansive inquiry into the nature of consciousness the series examines the tension between the scientific and philosophical and psychic views of the same phenomena and includes field notes and experiential exercises that invite the reader to make their own explorations Dark Pool of Light is divided into three volumes in Volume 1 Grossinger begins with the scientific and philosophical analytical views of reality exploring the science parascience philosophy and psychology of consciousness Covering topics as diverse as current discoveries in neuroscience and the philosophy of the ancient Greeks the book gives a broad overview of the bodies of knowledge concerning the nature of reality and consciousness Volume Two

discusses the similarities and differences between European esoteric traditions and Buddhism in their approaches to the subjects and gives a detailed description of the psychic training Grossinger undertook that informs much of his worldview This expansive inquiry into the nature of consciousness ends with this third volume in the series The Crisis and Future of Consciousness Grossinger addresses the perennial question of evil and shares the author's hopes and fears for the future of humanity While wisdom gleaned from such seemingly disparate sources as science philosophy religion and spirituality might appear very very different things Grossinger nevertheless finds their meeting place in subjective lived experience

**Materializing the Foundations of Quantum Mechanics** Climério Paulo da Silva Neto, 2023-05-24 This book offers a history of the instrumentation used to materialize the early thought experiments devised in the Einstein Bohr disputes over the foundations of quantum mechanics It shows how the second world war and cold war fostered the development of materials instruments and systems that made it possible to create manipulate and detect single quantum systems thus creating the material conditions for experiments in foundations of quantum mechanics and for a broad spectrum of experimental inquiries on the structure and properties of matter which underlay the creation of new research fields such as quantum optics quantum information and atomic molecular and optical physics Discussing research and development performed in diverse contexts this book reveals how physicists carried instruments and the knowledge they embodied through disciplinary and geographic frontiers to probe entanglement a most intriguing feature of the quantum world

**Science Between Myth and History** José G. Perillán, 2021 Science Between Myth and History explores scientific storytelling and its implications on the teaching practice and public perception of science In communicating their science scientists tend to use historical narratives for important rhetorical purposes This text explores the implications of doing this

**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 *Sex, Drugs, and Rock 'n' Roll* Zoe Cormier, 2015-03-24 A popular science book on the enduring appeal of the holy trinity of Sex Drugs and Music and how hedonistic impulses have also been integral to progress and science

American Trip Ido Hartogsohn, 2020-07-14 How historical social and cultural forces shaped the psychedelic experience in midcentury America from CIA experiments with LSD to Timothy Leary's Harvard Psilocybin Project Are psychedelics invaluable therapeutic medicines or dangerously unpredictable drugs that precipitate psychosis Tools for spiritual communion or cognitive enhancers that spark innovation Activators for one's private muse or part of a political movement In the 1950s and 1960s researchers studied psychedelics in all these incarnations often arriving at contradictory results In *American Trip* Ido Hartogsohn examines how the psychedelic experience in midcentury America was shaped by historical social and cultural forces by set the mindset of the user and setting the environments in which the experience takes place

"Well, Doc, You're In" David Kaiser, 2022-10-25 The life and work of Freeman Dyson renowned scientist visionary and iconoclast and his particular way of thinking about deep questions Freeman Dyson 1923 2020 renowned scientist visionary and iconoclast helped invent modern physics Not bound by disciplinary divisions he went on to explore foundational topics in mathematics astrophysics and the origin of life General readers were introduced to Dyson's roving mind and heterodox approach in his 1979 book *Disturbing the Universe* a poignant autobiographical reflection on life and science *Well Doc You're In* the title quotes Richard Feynman's remark to Dyson at a physics conference offers a fresh examination of Dyson's life and work exploring his particular way of thinking about deep questions that range from the nature of matter to the ultimate fate of the universe The chapters written by leading scientists historians and science journalists including some of Dyson's colleagues trace Dyson's formative years his budding interests and curiosities and his wide ranging work across the natural sciences technology and public policy They describe Dyson's innovations at the intersection of quantum theory and relativity his novel nuclear reactor design and his never realized idea of a spacecraft powered by nuclear weapons his years at the Institute for Advanced Study and his foray into cosmology In the coda Dyson's daughter Esther reflects on growing up in the Dyson household *Well Doc You're In* assesses Dyson's successes blind spots and influence assembling a portrait of a scientist's outsized legacy Contributors Jeremy Bernstein Robbert Dijkgraaf Esther Dyson George Dyson Ann Finkbeiner Amanda Geffer Ashutosh Jogalekar David Kaiser Caleb Scharf William Thomas *Cloud of the Impossible* Catherine Keller, 2014-12-02 The experience of the impossible churns up in our epoch whenever a collective dream turns to trauma politically sexually economically and with a certain ultimacy ecologically Out of an ancient theological lineage the figure of the cloud comes to convey possibility in the face of the impossible An old mystical nonknowing of God now hosts a current knowledge of uncertainty of indeterminate and interdependent outcomes possibly catastrophic Yet the connectivity and

collectivity of social movements of the fragile unlikely webs of an alternative notion of existence keep materializing a haunting hope densely entangled suggesting a more convivial relational world Catherine Keller brings process feminist and ecopolitical theologies into transdisciplinary conversation with continental philosophy the quantum entanglements of a participatory universe and the writings of Nicholas of Cusa Walt Whitman A N Whitehead Gilles Deleuze and Judith Butler to develop a theopoetics of nonseparable difference Global movements personal embroilments religious diversity the inextricable relations of humans and nonhumans these phenomena in their unsettling togetherness are exceeding our capacity to know and manage By staging a series of encounters between the nonseparable and the unknowable Keller shows what can be born from our cloudiest entanglement

**The Far Horizons of Time** H. Chris Ransford, 2015-04-24 What is Time Assuming no prior specialized knowledge by the reader the book raises specific hitherto overlooked questions about how time works such as how and why anyone can be made to be at the very same instant simultaneous with events that are actually days apart It examines abiding issues in the physics of time or at its periphery which still elude a full explanation such as delayed choice experiments the brain's perception of time during saccadic masking and more and suggests that these phenomena can only exist because they ultimately obey applicable mathematics thereby agreeing with a modern view that the universe and everything within it including the mind are ultimately mathematical structures It delves into how a number of conundrums such as the weak Anthropic Principle could be resolved and how such resolutions could be tested experimentally All its various threads converge towards a same new vision of the ultimate essence of time seen as a side effect from a deeper reality

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