

Charlotte Schönbeck

Albert Einstein und Philipp Lenard

Antipoden in Physik
und Zeitgeschichte



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3. *Zur Elektrodynamik bewegter Körper;*
von A. Einstein.

Sitzungsberichte
der Heidelberger Akademie der Wissenschaften
Stiftung Heinrich Lenz
Mathematisch-naturwissenschaftliche Klasse
Jahrgang 1910. 16. Abhandlung.

Über Äther und Materie

(Vortrag, gehalten in der Sitzung der Gesamt-
akademie am 4. Juni 1910)

von

P. LENARD

in Heidelberg



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Albert Einstein Und Philipp Lenard

Norman Lebrecht



Albert Einstein Und Philipp Lenard:

The Man Who Stalked Einstein Bruce J. Hillman, Birgit Ertl-Wagner, Bernd C. Wagner, 2015-04-16 By the end of World War I Albert Einstein had become the face of the new science of theoretical physics and had made some powerful enemies. One of those enemies Nobel Prize winner Philipp Lenard spent a career trying to discredit him. Their story of conflict pitting Germany's most widely celebrated Jew against the Nazi scientist who was to become Hitler's chief advisor on physics had an impact far exceeding what the scientific community felt at the time. Indeed their mutual antagonism affected the direction of science long after 1933 when Einstein took flight to America and changed the history of two nations. *The Man Who Stalked Einstein* details the tense relationship between Einstein and Lenard, their ideas and actions during the eventful period between World War I and World War II.

Einstein's Opponents Milena Wazeck, 2014-01-09 This detailed account of the controversy surrounding the publication of Albert Einstein's theory of relativity explores the ferocious popular and academic opposition which at one time encircled one of the most important scientific breakthroughs of the twentieth century. Based on extensive archival research, this fascinating discourse includes a compelling and entertaining examination of the contemporary literature created by Einstein's detractors. Exploring the arguments and strategies, social contexts and motivations of Einstein's detractors and providing unique insights into the dynamics of scientific controversies, this book is ideal for anyone interested in the history and philosophy of physics, popular science and the public understanding of science.

A Theory of Everything (That Matters) Alister McGrath, 2019 Einstein's revolutionary scientific ideas have transformed the world ushering in the nuclear age. Is there any place for faith in such a world? This volume is a must read for anyone who wants to understand the role of faith in a world where science and technology govern lives.

Einstein on Politics Albert Einstein, 2013-11-10 The most famous scientist of the twentieth century, Albert Einstein was also one of the century's most outspoken political activists. Deeply engaged with the events of his tumultuous times from the two world wars and the Holocaust to the atomic bomb and the Cold War to the effort to establish a Jewish homeland, Einstein was a remarkably prolific political writer, someone who took courageous and often unpopular stands against nationalism, militarism, anti-Semitism, racism and McCarthyism. In *Einstein on Politics*, leading Einstein scholars David Rowe and Robert Schulmann gather Einstein's most important public and private political writings and put them into historical context. The book reveals a little known Einstein, not the ineffectual and naive idealist of popular imagination but a principled, shrewd pragmatist whose stands on political issues reflected the depth of his humanity. Nothing encapsulates Einstein's profound involvement in twentieth century politics like the atomic bomb. Here we read the former militant pacifist's 1939 letter to President Franklin D. Roosevelt warning that Germany might try to develop an atomic bomb. But the book also documents how Einstein tried to explain this action to Japanese pacifists after the United States used atomic weapons to destroy Hiroshima and Nagasaki, events that spurred Einstein to call for international control of nuclear technology. A vivid firsthand view of how one of the

twentieth century's greatest minds responded to the greatest political challenges of his day Einstein on Politics will forever change our picture of Einstein's public activism and private motivations *Einstein's Unification* Jeroen van Dongen, 2010-06-10 Why did Einstein tirelessly study unified field theory for more than thirty years In this book the author argues that Einstein believed he could find a unified theory of all of nature's forces by repeating the methods he thought he had used when he formulated general relativity The book discusses Einstein's route to the general theory of relativity focusing on the philosophical lessons that he learnt It then addresses his quest for a unified theory for electromagnetism and gravity discussing in detail his efforts with Kaluza Klein and surprisingly the theory of spinors From these perspectives Einstein's critical stance towards the quantum theory comes to stand in a new light This book will be of interest to physicists historians and philosophers of science Hitler's Atomic Bomb Mark Walker, 2024-07-18 Who were the German scientists who worked on atomic bombs during World War II for Hitler's regime How did they justify themselves afterwards Examining the global influence of the German uranium project and postwar reactions to the scientists involved Mark Walker explores the narratives surrounding Hitler's bomb The global impacts of this project were cataclysmic Credible reports of German developments spurred the American Manhattan Project the nuclear attacks on Hiroshima and Nagasaki and in turn the Soviet efforts After the war these scientists' work was overshadowed by the twin shocks of Auschwitz and Hiroshima Hitler's Atomic Bomb sheds light on the postwar criticism and subsequent rehabilitation of the German scientists including the controversial legend of Werner Heisenberg and Carl Friedrich von Weizsäcker's visit to occupied Copenhagen in 1941 This scientifically accurate but non-technical history examines the impact of German efforts to harness nuclear fission and the surrounding debates and legends **The Formative Years of Relativity** Hanoch Gutfreund, Jürgen Renn, 2017-09-26 First published in 1922 and based on lectures delivered in May 1921 Albert Einstein's *The Meaning of Relativity* offered an overview and explanation of the then new and controversial theory of relativity The work would go on to become a monumental classic printed in numerous editions and translations worldwide Now *The Formative Years of Relativity* introduces Einstein's masterpiece to new audiences This beautiful volume contains Einstein's insightful text accompanied by important historical materials and commentary looking at the origins and development of general relativity Hanoch Gutfreund and Jürgen Renn provide fresh original perspectives placing Einstein's achievements into a broader context for all readers In this book Gutfreund and Renn tell the rich story behind the early reception spread and consequences of Einstein's ideas during the formative years of general relativity in the late 1910s and 1920s They show that relativity's meaning changed radically throughout the nascent years of its development and they describe in detail the transformation of Einstein's work from the esoteric pursuit of one individual communicating with a handful of colleagues into the preoccupation of a growing community of physicists astronomers mathematicians and philosophers This handsome edition quotes extensively from Einstein's correspondence and reproduces historical documents such as newspaper articles and letters Inserts are

featured in the main text giving concise explanations of basic concepts and short biographical notes and photographs of some of Einstein's contemporaries are included The first ever English translations of two of Einstein's popular Princeton lectures are featured at the book's end

An Introduction to Special Relativity for Radiation and Plasma Physics Greg Tallents, 2022-11-24 This textbook introduces the topic of special relativity with a particular emphasis upon light-matter interaction and the production of light in plasma The physics of special relativity is intuitively developed and related to the radiative processes of light The book reviews the underlying theory of special relativity before extending the discussion to applications frequently encountered by postgraduates and researchers in astrophysics high-power laser interactions and the users of specialized light sources such as synchrotrons and free electron lasers A highly pedagogical approach is adopted throughout and numerous exercises are included within each chapter to reinforce the presentation of key concepts and applications of the material

Physics Before and After Einstein Marco Mamone Capria, 2005 It is now a century ago that one of the icons of modern physics published some of the most influential scientific papers of all times With his work on relativity and quantum theory Albert Einstein has altered the field of physics forever It should not come as a surprise that looking back at Einstein's work one needs to rethink the whole scope of physics before and after his time This book aims to provide a perspective on the history of modern physics spanning from the late 19th century up to today It is not an encyclopaedic work but it presents the groundbreaking and sometimes provocative main contributions by Einstein as marking the line between old and new physics and expands on some of the developments and open issues to which they gave rise This presentation is not meant as a mere celebration of Einstein's work but as a critical appraisal which provides accurate historical and conceptual information The contributing authors all have a reputation for working on themes related to Einstein's work and its consequences Therefore the collection of papers gives a good representation of what happened in the 100 years after Einstein's landmark *Annalen der Physik* articles All people interested in the field of physics history of science and epistemology could benefit from this book An effort has been made to make the book attractive not only to scientists but also to people with a more basic knowledge of mathematics and physics

The Ethereal Aether Loyd S. Swenson, Jr., 2013-08-28 The Ethereal Aether is a historical narrative of one of the great experiments in modern physical science The fame of the 1887 Michelson-Morley aether-drift test on the relative motion of the earth and the luminiferous aether derives largely from the role it is popularly supposed to have played in the origins and later in the justification of Albert Einstein's first theory of relativity its importance is its own As a case history of the intermittent performance of an experiment in physical optics from 1880 to 1930 and of the men whose work it was this study describes chronologically the conception experimental design first trials repetitions influence on physical theory and eventual climax of the optical experiment Michelson-Morley and their colleague Miller were the prime actors in this half-century drama of confrontation between experimental and theoretical physics The issue concerned the relative motion of Spaceship Earth and the Universe

as measured against the background of a luminiferous medium supposedly filling all interstellar space At stake it seemed were the phenomena of astronomical aberration the wave theory of light and the Newtonian concepts of absolute space and time James Clerk Maxwell's suggestion for a test of his electromagnetic theory was translated by Michelson into an experimental design in 1881 redesigned and reaffirmed as a null result with Morley in 1887 thereafter modified and partially repeated by Morley and Miller finally completed in 1926 by Miller alone then by Michelson's team again in the late 1920s Meanwhile Helmholtz Kelvin Rayleigh FitzGerald Lodge Larmor Lorentz and Poincaré most of the great names in theoretical physics at the turn of the twentieth century had wrestled with the anomaly presented by Michelson's experiment As the relativity and quantum theories matured wave particle duality was accepted by a new generation of physicists The aether drift tests disproved the old and verified the new theories of light and electromagnetism By 1930 they seemed to explain Einstein relativity and space time But in historical fact the aether died only with its believers

The Cambridge History of Modern European Thought: Volume 2, The Twentieth Century Peter E. Gordon, Warren Breckman, 2019-08-29 The Cambridge History of Modern European Thought is an authoritative and comprehensive exploration of the themes thinkers and movements that shaped our intellectual world in the late eighteenth and nineteenth century Representing both individual figures and the contexts within which they developed their ideas each essay is written in a clear accessible style by leading scholars in the field and offers both originality and interpretive insight This second volume surveys twentieth century European intellectual history conceived as a crisis in modernity Comprised of twenty one chapters it focuses on figures such as Freud Heidegger Adorno and Arendt surveys major schools of thought including Phenomenology Existentialism and Conservatism and discusses critical movements such as Postcolonialism Structuralism and Post structuralism Renouncing a single master narrative of European thought across the period Peter E Gordon and Warren Breckman establish a formidable new multi faceted vision of European intellectual history for the global modern age

Albert Einstein und Philipp Lenard Charlotte Schönbeck, 2013-03-12 Der erbitterte Kampf des Heidelberger Physikers Philipp Lenard 1862 1947 gegen die Relativitätstheorie Einsteins und auch gegen die Person Albert Einsteins wird in wissenschaftshistorischen Veröffentlichungen und Einstein Biographien öfter angesprochen Durch die Verflechtung wissenschaftlicher Kontroversen sowohl mit persönlichen wie auch mit politischen Angriffen nahmen diese Auseinandersetzungen Formen an die weit über den üblichen Rahmen wissenschaftlicher Auseinandersetzungen hinausgingen

Biographies in the History of Physics Christian Forstner, Mark Walker, 2020-07-22 This book sheds new light on the biographical approach in the history of physics by including the biographies of scientific objects institutions and concepts What is a biography Can biographies also be written for non human subjects like scientific instruments institutions or concepts The respective chapters of this book discuss these controversial questions using examples from the history of physics By approaching biography as metaphor it transcends the boundaries between various perspectives on the history of physics and enriches our grasp of the past

Weimar Culture and

Quantum Mechanics Alexei Kojevnikov, A. B. Kozhevnikov, 2011 This volume reprints Paul Forman's classic papers on the history of physics in post World War I Germany and the invention of quantum mechanics

Einstein's Jury Jeffrey Crelinsten, 2016-05-31 Einstein's Jury is the dramatic story of how astronomers in Germany, England, and America competed to test Einstein's developing theory of relativity. Weaving a rich narrative based on extensive archival research, Jeffrey Crelinsten shows how these early scientific debates shaped cultural attitudes we hold today. The book examines Einstein's theory of general relativity through the eyes of astronomers, many of whom were not convinced of the legitimacy of Einstein's startling breakthrough. These were individuals with international reputations to uphold and benefactors and shareholders to please, yet few of them understood the new theory coming from the pen of Germany's up-and-coming theoretical physicist Albert Einstein. Some tried to test his theory early in its development but got no results. Others, through toil and hardship, great expense, and perseverance, concluded that it was wrong. A tale of international competition and intrigue, Einstein's Jury brims with detail gleaned from Crelinsten's far-reaching inquiry into the history and development of relativity. Crelinsten concludes that the well-known British eclipse expedition of 1919 that made Einstein famous had less to do with the scientific acceptance of his theory than with his burgeoning public fame. It was not until the 1920s, when the center of gravity of astronomy and physics shifted from Europe to America, that the work of prestigious American observatories legitimized Einstein's work. As Crelinsten so expertly shows, the glow that now surrounds the famous scientist had its beginnings in these early debates among professional scientists working in the glare of the public spotlight.

Regarding, Inter Alia, Albert Einstein and Mileva Marich Einstein (Stefan University Press Series on Thus Spoke Einstein; ISSN: 1550-4115) V. Alexander Stefan, 2005-12-01 Physicists around the world celebrated the year 2005 as The World Year of Physics 2005, honoring the achievements in physics research of Albert Einstein. This booklet is dedicated to the World Year of Physics. In this booklet, I refute the claims that Mileva Marich Einstein played an important scientific role in his research. Mileva Marich Einstein is of a Serb origin; as I am a naturalized American of a Serb origin, I based this presentation on the available material.

13th Chaotic Modeling and Simulation International Conference Christos H. Skiadas, Yiannis Dimotikalis, 2021-12-14 Gathering the proceedings of the 13th CHAOS2020 International Conference, this book highlights recent developments in nonlinear dynamical and complex systems. The conference was intended to provide an essential forum for Scientists and Engineers to exchange ideas, methods, and techniques in the field of Nonlinear Dynamics, Chaos, Fractals, and their applications in General Science and the Engineering Sciences. The respective chapters address key methods, empirical data, and computer techniques, as well as major theoretical advances in the applied nonlinear field. Beyond showcasing the state of the art, the book will help academic and industrial researchers alike apply chaotic theory in their studies.

The Einstein Dossiers Siegfried Grundmann, 2006-02-08 In 1919, the Prussian Ministry of Science, Arts, and Culture opened a dossier on Einstein's Theory of Relativity. It was rediscovered by the author in 1961 and is used in conjunction with numerous other subsequently identified

Einstein files as the basis of this fascinating book In particular the author carefully scrutinizes Einstein's FBI file from 1950-55 against mostly unpublished material from European including Soviet sources and presents hitherto unknown documentation on Einstein's alleged contacts with the German Communist Party and the Comintern Siegfried Grundmann's thorough study of Einstein's participation on a committee of the League of Nations based on archival research in Geneva is also new This book outlines Einstein's image in politics and German science policy It covers the period from his appointment as a researcher in Berlin to his fight abroad against the boycott of German science after World War I and his struggle at home against attacks on Jewish physics of which he was made a prime target An important gap in the literature on Einstein is thus filled contributing much new material toward a better understanding of Einstein's so rigorous break with Germany

Epigenetics in the Age of Twitter Gerald Weissmann, 2012-03-06 America's most interesting and important essayist Eric Kandel Nobel Prize winning author of *The Age of Insight* Gerald Weissmann bridges the space between science and the humanities and particularly between medicine and the arts with wit erudition and most important wisdom Adam Gopnik *Epigenetics* which attempts to explain how our genes respond to our environment is the latest twist on the nature vs nurture debate In addressing this and other controversies in contemporary science Gerald Weissmann taps what he calls the social network of Western Civilization including the many neglected women of science from the martyred Hypatia of Alexandria the first woman scientist to the Nobel laureates Marie Curie Christiane Nüsslein-Volhard and Elizabeth Blackburn among other luminaries in the field Always instructive and often hilarious this is a one volume introduction to modern biology viewed through the lens of contemporary mass media and the longer historical tradition of the Scientific Revolution Whether engaging in the healthcare debate or imagining the future prose styling of the scientific research paper in the age of Twitter Weissmann proves himself as an incisive cultural critic and satirist Gerald Weissmann August 7 1930 July 10 2019 was a physician scientist editor and essayist whose collections include *The Fevers of Reason* *New and Selected Essays* *Epigenetics in the Age of Twitter* *Pop Culture and Modern Science* *Mortal and Immortal* *DNA Science and the Lure of Myth* and *Galileo's Gout Science in an Age of Endarkenment*

Genius & Anxiety Norman Lebrecht, 2020-12-08 This lively chronicle of the years 1847-1947 the century when the Jewish people changed how we see the world is a thrilling and tragic history especially good on the ironies and chain reaction intimacies that make a people and a past *The Wall Street Journal* In a hundred year period a handful of men and women changed the world Many of them are well known Marx Freud Proust Einstein Kafka Others have vanished from collective memory despite their enduring importance in our daily lives Without Karl Landsteiner for instance there would be no blood transfusions or major surgery Without Paul Ehrlich no chemotherapy Without Siegfried Marcus no motor car Without Rosalind Franklin genetic science would look very different Without Fritz Haber there would not be enough food to sustain life on earth What do these visionaries have in common They all had Jewish origins They all had a gift for thinking in wholly original even earth shattering ways In 1847 the Jewish people made up less than 0.25% of

the world's population and yet they saw what others could not How Why Norman Lebrecht has devoted half of his life to pondering and researching the mindset of the Jewish intellectuals writers scientists and thinkers who turned the tides of history and shaped the world today as we know it In *Genius Anxiety* Lebrecht begins with the Communist Manifesto in 1847 and ends in 1947 when Israel was founded This robust magnificent beautifully designed volume is an urgent and moving history The Spectator UK and a celebration of Jewish genius and contribution

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