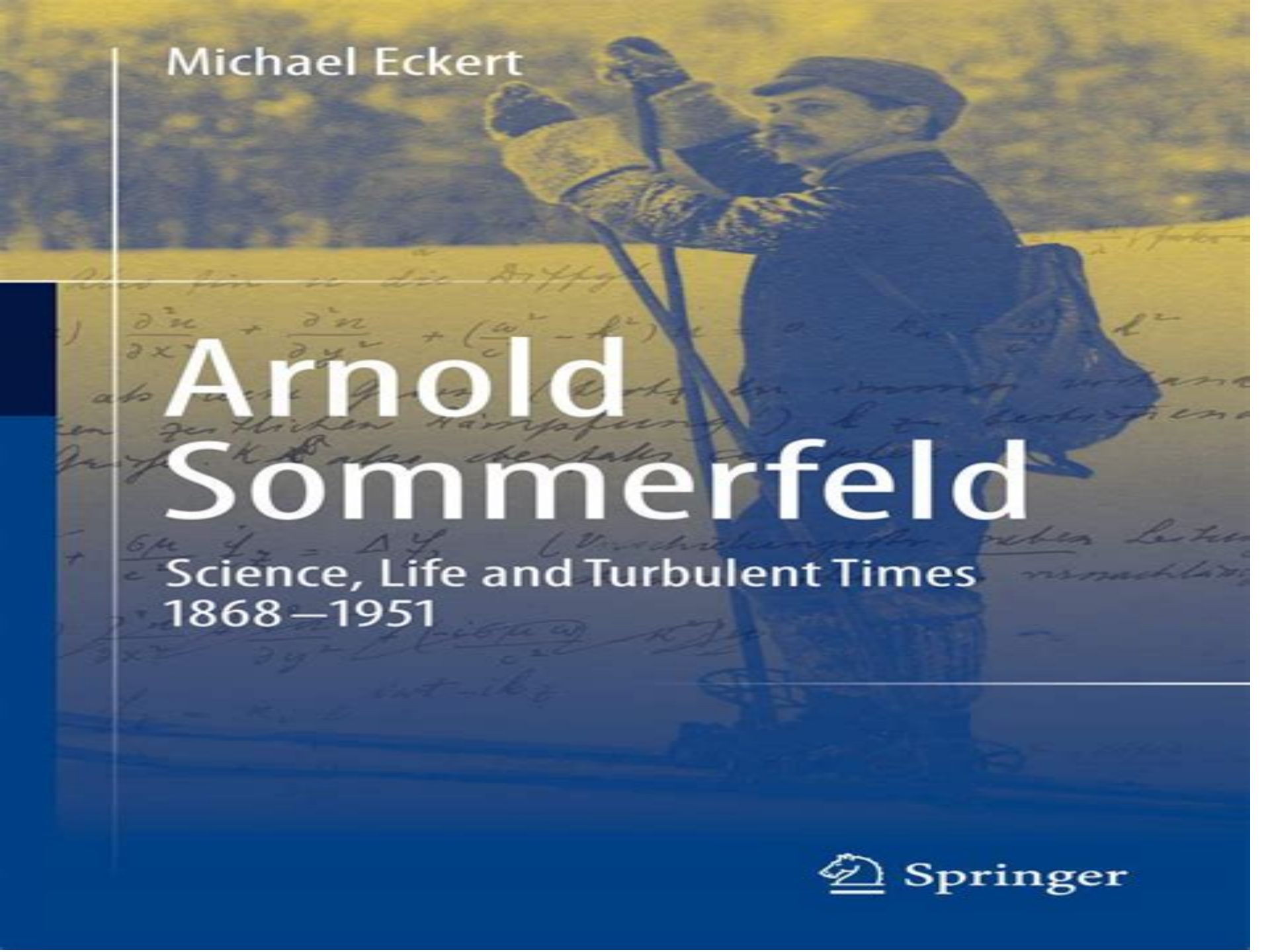

Michael Eckert

Arnold Sommerfeld

Science, Life and Turbulent Times 1868–1951

Springer

Arnold Sommerfeld Science Life And Turbulent Times 1868 1951

Michael Eckert

Arnold Sommerfeld Science Life And Turbulent Times 1868 1951:

Arnold Sommerfeld Michael Eckert,2013-06-24 The subject of the book is a biography of the theoretical physicist Arnold Sommerfeld 1868 1951 Although Sommerfeld is famous as a quantum theorist for the elaboration of the semi classical atomic theory Bohr Sommerfeld model Sommerfeld s fine structure constant his role in the history of modern physics is not confined to atoms and quanta Sommerfeld left his mark in the history of mathematics fluid mechanics a number of physical subdisciplines and in particular as founder of a most productive school Peter Debye Wolfgang Pauli Werner Heisenberg Linus Pauling and Hans Bethe were his pupils to name only the Nobel laureates among them This biography is to a large extent based on primary source material correspondence diaries unpublished manuscripts It should be of particular interest to students who are keen to know more about the historical roots of modern science Sommerfeld lived through turbulent times of German history Wilhelmian Empire Weimar Republic Nazi period His life therefore illustrates how science and scientists perform in changing social environments From this perspective the biography should also attract readers with a general interest in the history of science and technology Voices from Exile ,2015-11-24 The sixteen essays in this volume are a tribute to Hamish Ritchie s deep interest in exile as a literary and historical phenomenon The first eight focus on the British and Irish context including studies of J rgen Kuczynski and his family Martin Miller Lilly Kann Hermann Sinsheimer Albin Stuebs Ludwig Hopf and Paul Bondy as well as contributions on the Association of Jewish Refugees and the exile experience as reflected in Klaus Mann s Der Vulkan The following four contributions widen the discussion to encompass Germany the Netherlands Austria and Yugoslavia by focusing on the diaries of Anne Frank and Etty Hillesum the early poetry of Bertolt Brecht and works by Vladimir Vertlib Aleksandar Ajzinberg and David Albahari The historical dimension is deepened with contributions on William Joyce Joseph Jonas the marginalisation of the mass emigration of the Jews within German memory and the exile of princesses for whom until recent times marriage often meant a life far from home *Establishing Quantum Physics in Munich* Michael Eckert,2020-12-15 This book traces the history of Arnold Sommerfeld s famous nursery of theoretical physics at the University of Munich and demonstrates the centrality of developing personal and institutional networks for the emergence of quantum theory Sommerfeld originally a mathematician with little interest in theoretical physics was a somewhat unlikely choice for a chair of theoretical physics when he was appointed in 1906 However he quickly reoriented his research focus towards physics forstering a keen interest in experimental research Possibly even more important for the development of quantum theory in the coming years was his exceptional talent as a charismatic teacher and prolific networker which turned Munich into a central node in the fast growing network of quantum physicists in the 1920s It is no coincidence that the two most talented child prodigies of 1920s quantum physics Wolfgang Pauli and Werner Heisenberg were his students nor that by the end of the decade about a dozen of Sommerfeld s former disciples held chairs in theoretical physics The book is directed at historians of science and physics as well as all those interested in the history of

science diplomacy and networking The book is part of a series of publications on the early network of quantum physics These works emerged from an expansive study on the quantum revolution as a major transformation of physical knowledge undertaken by the Max Planck Institute for the History of Science and the Fritz Haber Institute 2006 2012 For more on this project see the dedicated Feature Story The Networks of Early Quantum Theory at the Max Planck Institute for the History of Science https www mpiwg berlin mpg de feature story networks early quantum theory **The Academic World in the Era of the Great War** Marie-Eve Chagnon,Tomás Irish,2017-10-17 This book examines the ways in which scholarly expertise was mobilized during the First World War and the consequences of this for the inter connected academic world that had developed in the late nineteenth century Adopting a strong international approach the contributors to this volume examine the impact of the War on individuals institutions and disciplines cumulatively demonstrating the strong afterlife of conflict for scholarly practices and academic communities across Europe and North America in the decades following the cessation of the Great War The Lost Scientists Of World War Ii David C Clary,2024-02-08 This book tells the stories of scientists from Germany and other European countries who vanished during World War II These erudite scholars contributed to diverse scientific fields and were associated with some of the world s leading universities and research institutions Despite their proficiency they all sought help from agencies to relocate to the UK in the 1930s but were unable to secure the necessary assistance The Lost Scientists of World War II explores the fascinating narratives of thirty of these scientific refugees delving into the reasons behind the unavailability of aid and presenting fresh insights into the tragic fates or astounding survival experiences of these individuals **Schrodinger In Oxford** David C Clary,2022-03-07 Clary s account makes for fascinating reading not least because of its clear style and copious citation of primary sources and original scientific articles The author provides a compelling narrative of Schr dinger s departure in 1933 from a highly eminent position at the University of Berlin to a precarious untenured position at Magdalen College with political and scientific considerations deftly woven together Read Full Review ScienceErwin Schr dinger was one of the greatest scientists of all time but it is not widely known that he was a Fellow at Magdalen College Oxford in the 1930s This book is an authoritative account of Schr dinger s time in Oxford by Sir David Clary an expert on quantum chemistry and a former President of Magdalen College who describes Schr dinger s remarkable life and scientific contributions in a language that can be understood by all Through access to many unpublished manuscripts the author reveals in unprecedented detail the events leading up to Schr dinger s sudden departure from Berlin in 1933 his arrival in Oxford and award of the Nobel Prize his dramatic escape from the Nazis in Austria to return to Oxford and his urgent flight from Belgium to Dublin at the start of the Second World War The book presents many acute observations from Schr dinger s wife Anny and his daughter Ruth who was born in Oxford and became an acquaintance of the author in the last years of her life It also includes a remarkable letter sent to Schr dinger in Oxford from Adolf Hitler thanking him for his services to the state as a professor in Berlin Schr dinger s intense interactions with other great

scientists who were also refugees during this period including Albert Einstein and Max Born are examined in the context of the chaotic political atmosphere of the time Fascinating anecdotes of how this flamboyant Austrian scientist interacted with the President and Fellows of a highly traditional Oxford College in the 1930s are a novel feature of the book A gripping and intimate narrative of one of the most colourful scientists in history Schr dinger in Oxford explains how his revolutionary breakthrough in quantum mechanics has become such a central feature in 21st century science *Physics and Necessity* Olivier Darrigol,2014 This book recounts a few ingenious attempts to derive physical theories by reason only beginning with Descartes geometric construction of the world and finishing with recent derivations of quantum mechanics from natural axioms Niels Bohr Helge Kragh,2022-06-15 Niels Bohr s atomic theory of 1913 is one of the absolute highlights in the history of modern science It was only with this work that physicists realized that quantum theory is an essential ingredient in atomic physics and it was also only with this work that Rutherford s nuclear model dating from 1911 was transformed into a proper theory of atomic structure In a longer perspective Bohr s quantum atom of 1913 gave rise to the later Heisenberg Schr dinger quantum mechanics and all its marvellous consequences This book is a detailed account of the origin of the Bohr atom centred around his original scientific articles of 1913 which are here reproduced and provided with the necessary historical background In addition to the so called trilogy the three papers published in Philosophical Magazine also two other and less well known yet important papers are included The present work starts with a condensed biographical account of Bohr s life and scientific career from his birth in Copenhagen in 1885 to his death in the same city 77 years later It then proceeds with a chapter outlining earlier ideas of atomic structure and tracing Bohr s route from his doctoral dissertation in 1911 over his stays in Cambridge and Manchester to the submission in April 1913 of the first part of the trilogy The reproduction of Bohr s five articles is followed by notes and comments directly related to the texts with the aim of clarifying some of the textual passages and to explicate names and subjects that may not be clear or well known The reception of Bohr s radically new theory by contemporary physicists and chemists is discussed in a final chapter which deals with the immediate reactions to Bohr s theory 1913 1915 mostly among British German and American scientists Historians of science have long been occupied with Bohr s atomic theory which was the subject of careful studies in connection with its centenary in 2013 The present work offers an extensive source based account of the original theory aimed at a non specialist audience with an interest in the history of physics and the origin of the quantum world In 1922 Bohr was awarded the Nobel Prize for his theory The coming centenary will undoubtedly cause an increased interest in how he arrived at his revolutionary picture of the constitution of atoms and molecules Lipman Bers, a Life in Mathematics Linda Keen,Irwin Kra,Rubí E. Rodríguez,2015-09-15 The book is part biography and part collection of mathematical essays that gives the reader a perspective on the evolution of an interesting mathematical life It is all about Lipman Bers a giant in the mathematical world who lived in turbulent and exciting times It captures the essence of his mathematics a development and transition from

applied mathematics to complex analysis quasiconformal mappings and moduli of Riemann surfaces and the essence of his personality a progression from a young revolutionary refugee to an elder statesman in the world of mathematics and a fighter for global human rights and the end of political torture The book contains autobiographical material and short reprints of his work The main content is in the exposition of his research contributions sometimes with novel points of view by students grand students and colleagues The research described was fundamental to the growth of a central part of 20th century mathematics that now in the 21st century is in a healthy state with much current interest and activity The addition of personal recollections professional tributes and photographs yields a picture of a man his personal and professional family and his time Constructing Quantum Mechanics Volume Two Anthony Duncan,Michel Janssen,2023-08-17 This is the second of two volumes on the genesis of quantum mechanics in the first quarter of the 20th century It covers the rapid transition from the old to the new quantum theory in the years 1923 1927 *More Than Nothing* Aaron Sidney Wright,2024 Across decades and disciplines More than Nothing offers a scoping history of the vacuum as a lens into the development of modern physics **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 **Planck** Brandon R. Brown,2015 In Planck Driven by Vision Broken by War Brandon R Brown interweaves the voices and writings of Planck his family and his contemporaries with many passages appearing in English for the first time to create a portrait of a groundbreaking physicist working in the midst of war **Arthur E. Haas - The Hidden Pioneer of Quantum Mechanics** Michael Wiescher,2021-09-23 The book highlights the personal and scientific struggles of Arthur Erich Haas 1884 1941 an Austrian Physicist from a wealthy Jewish middle class family whose remarkable accomplishments in a politically hostile but scientifically rewarding environment deserve greater recognition Haas was a fellow student of both Lise Meitner and Erwin Schr dinger and was also one of the last doctoral students of Ludwig Boltzmann Following Boltzmann s suicide Haas was forced to submit a more independent doctoral thesis in which he postulated new approaches in early quantum theory actually introducing the idea of the Bohr radius before Niels Bohr It is the lost story of a trailblazer in the fields of quantum mechanics and cosmology a herald of nuclear energy and applications of modern science This biography of Haas is based on new and previously unpublished family records and archived material from the Vienna Academy of Science and the University of Notre Dame which the author has collected over many years From his analysis of the letters documents and photos that rested for nearly a century in family attics and academic archives Michael Wiescher provides a unique and detailed insight into the life of a gifted Jewish physicist during the first half of the twentieth century It also sheds light on the scientific developments and thinking of the time It appeals not only to historians and physicists but also general readers All

appreciate the record of Haas interactions with many of the key figures who helped to found modern physics

Constructing Quantum Mechanics Anthony Duncan,Michel Janssen,2019 This is the first of two volumes on the genesis of quantum mechanics based on the latest scholarship in the field This first volume covers the key developments in the field in the period between 1900 1923 which provided the scaffold on which modern quantum mechanics was built on

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 **Walter Kohn: From Kindertransport And Internment To Dft And The Nobel Prize** David C Clary,2024-10-02 Walter Kohn 1998 Nobel Laureate in Chemistry and discoverer of the Density Functional Theory DFT died in 2016 at the grand age of 93 This book is the first ever biography of Kohn who led a remarkable life and scientific career not least the fact that his DFT theory has emerged as the underlying computational method for molecular simulation used throughout the physical and life sciences Taking us on a compelling journey Sir David Clary traces Kohn s early life in Vienna and his dramatic escape from the Nazis on the Kindertransport to England in 1939 followed by Kohn s internment as an enemy alien and his transportation to Canada in 1940 His subsequent scientific career is discussed in detail including his remarkable sabbatical in France when he discovered DFT and his enduring efforts on peace initiatives and reduction of nuclear proliferation An extraordinary story of a theoretical physicist winning the Nobel Prize in Chemistry Walter Kohn is a sparkling chronicle of one of the great scientists of the 20th century who forever changed the way contemporary science is done **How Einstein Found His Field Equations** Michel Janssen,Jürgen Renn,2022-07-29 Einstein s field equations of gravitation are a core element of his general theory of relativity In four short communications to the Prussian Academy of Sciences in Berlin in November 1015 we can follow the final steps toward these equations and the resulting theory s spectacular success in accounting for the anomalous motion of Mercury s perihelion This source book provides an expert guide to these four groundbreaking papers Following an introductory essay placing these papers in the context of the development of Einstein s theory it presents and analyzes in addition to the four papers of November 1915 a careful selection of critical excerpts from papers letters and manuscripts documenting the path that early on led Einstein to the field equations of the first November 1915 paper but then took a turn away from them only to lead back to them in the end Drawing on extensive research at the Einstein Papers Project and the Max Planck Institute for History of Science this volume traces the intricate interplay between considerations of physics and considerations of mathematics that guided Einstein along this path It thus presents a concise yet authoritative account of how Einstein found his field equations

affording readers who are prepared to immerse themselves in these intricacies a unique glimpse of Einstein at work at the height of his creative prowess Highlights of this journey in Einstein s footsteps include the crucial pages with detailed annotation from the Zurich Notebook the record of Einstein s early search for field equation with his mathematician friend Marcel Grossmann and the Einstein Besso manuscript documenting Einstein s attempts with his friend and confidant Michele Besso to explain the Mercury anomaly on the basis of the equations that he and Grossmann had eventually settled on in the Zurich Notebook *Nikola Tesla's Electricity Unplugged* Tom Valone Ph.D.,2016-04-13 The immense genius of Tesla resulted from a mind that could see an invention in 3 D from every angle within his mind before it was easily built Tesla s inventions were complete down to dimensions and part sizes in his visionary process Tesla would envision his electromagnetic devices as he stared into the sky or into a corner of his laboratory His inventions on rotating magnetic fields creating AC current as we know it today have changed the world yet most people have never heard of this great inventor Is he a suppressed inventor as many historians contend Many of Tesla s concepts and inventions are still thought of as science fiction today over 60 years later Includes Tesla s fantastic vision of the future his wireless transmission of power Tesla s Magnifying Transmitter the testing and building of his towers for wireless power tons more The genius of Nikola Tesla is being realized by millions all over the world **Sicilian Visitors Volume 2 - Culture** Francesco Rocco Ruggeri,2018-07-26 Sicilian Visitors Vol 2 Culture focuses on a wide range of cultural aspects of the island of Sicily including religion literature art music science sports food as well describing visitors who have come to the island and their impressions Vol 2 is the companion of Vol 1 which describes the island s history

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Arnold Sommerfeld Science Life And Turbulent Times 1868 1951 Introduction

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