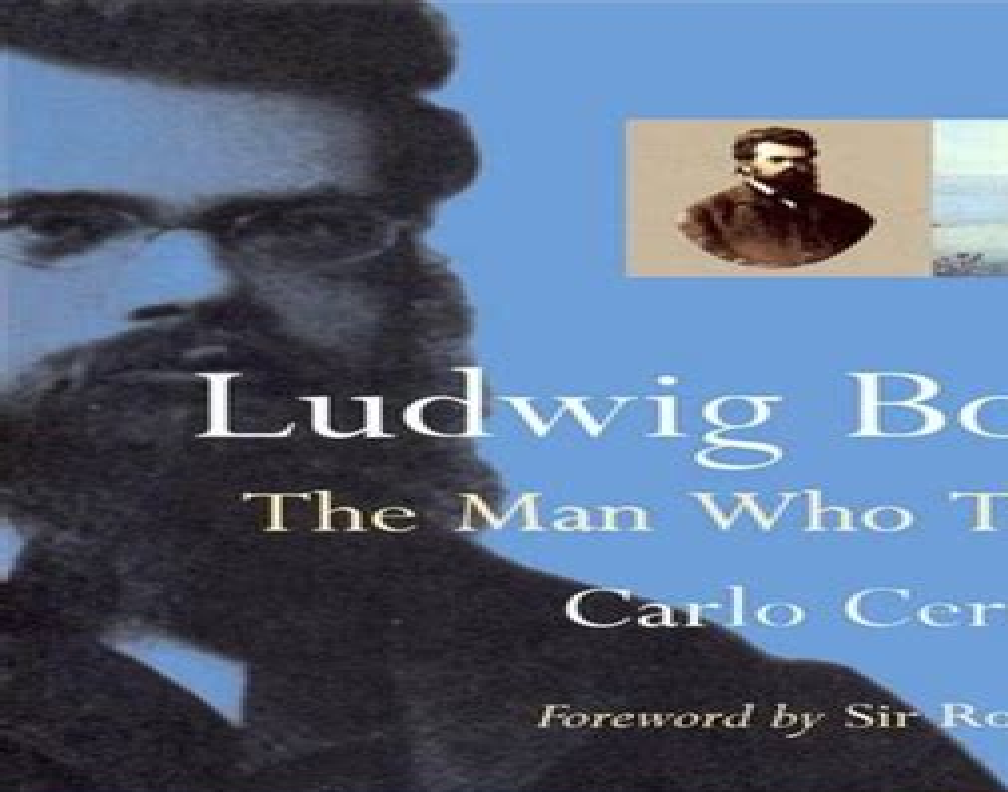




Ludwig Boltzmann

The Man Who Trusted Atoms

Carlo Cercignani

Foreword by Sir Roger Penrose



OXFORD

Ludwig Boltzmann The Man Who Trusted Atoms

David Lindley



Ludwig Boltzmann The Man Who Trusted Atoms:

Ludwig Boltzmann Carlo Cercignani, 1998 The book presents the life and personality the scientific and philosophical work of Ludwig Boltzmann one of the great scientists who marked the passage from 19th to 20th century physics His rich and tragic life ending by suicide at the age of 62 is described in detail A substantial part of the book is devoted to discussing his scientific and philosophical ideas and placing them in the context of the second half of the 19th century The fact that Boltzmann was the man who did most to establish that there is a microscopic atomic structure underlying macroscopic bodies is documented as is Boltzmann s influence on modern physics especially through the work of Planck on light quanta and of Einstein on Brownian motion Boltzmann was the centre of a scientific revolution and he has been proved right on many crucial issues He anticipated Kuhn s theory of scientific revolutions and proposed a theory of knowledge based on Darwin His basic results when properly understood can also be stated as mathematical theorems Some of these have been proved others are still at the level of likely but unproven conjectures The main text of this biography is written almost entirely without equations Mathematical appendices deepen knowledge of some technical aspects of the subject Ludwig Boltzmann (the Man Who Trusted Atoms) Cercignani C., Boltzmanns Atom David Lindley, 2015-12-19 In 1900 many eminent scientists did not believe atoms existed yet within just a few years the atomic century launched into history with an astonishing string of breakthroughs in physics that began with Albert Einstein and continues to this day Before this explosive growth into the modern age took place an all but forgotten genius strove for forty years to win acceptance for the atomic theory of matter and an altogether new way of doing physics Ludwig Boltz mann battled with philosophers the scientific establishment and his own potent demons His victory led the way to the greatest scientific achievements of the twentieth century Now acclaimed science writer David Lindley portrays the dramatic story of Boltzmann and his embrace of the atom while providing a window on the civilized world that gave birth to our scientific era Boltzmann emerges as an endearingly quixotic character passionately inspired by Beethoven who muddled through the practical matters of life in a European gilded age Boltzmann s story reaches from fin de si cle Vienna across Germany and Britain to America As the Habsburg Empire was crumbling Germany s intellectual might was growing Edinburgh in Scotland was one of the most intellectually fertile places on earth and in America brilliant independent minds were beginning to draw on the best ideas of the bureaucratized old world Boltzmann s nemesis in the field of theoretical physics at home in Austria was Ernst Mach noted today in the term Mach I the speed of sound Mach believed physics should address only that which could be directly observed How could we know that frisky atoms jiggling about corresponded to heat if we couldn t see them Why should we bother with theories that only told us what would probably happen rather than making an absolute prediction Mach and Boltzmann both believed in the power of science but their approaches to physics could not have been more opposed Boltzmann sought to explain the real world and cast aside any philosophical criteria Mach along with many nineteenth

century scientists wanted to construct an empirical edifice of absolute truths that obeyed strict philosophical rules Boltzmann did not get on well with authority in any form and he did his best work at arm's length from it When at the end of his career he engaged with the philosophical authorities in the Viennese academy the results were personally disastrous and tragic Yet Boltzmann's enduring legacy lives on in the new physics and technology of our wired world Lindley's elegant telling of this tale combines the detailed breadth of the best history the beauty of theoretical physics and the psychological insight belonging to the finest of novels

Anxiety and the Equation Eric Johnson, 2022-11-01 A man and his equation the anxiety plagued nineteenth century physicist who contributed significantly to our understanding of the second law of thermodynamics Ludwig Boltzmann's grave in Vienna's Central Cemetery bears a cryptic epitaph $S = k \log W$ This equation was Boltzmann's great discovery and it contributed significantly to our understanding of the second law of thermodynamics In *Anxiety and the Equation* Eric Johnson tells the story of a man and his equation the anxiety plagued nineteenth century physicist who did his most important work as he struggled with mental illness Johnson explains that S in Boltzmann's equation refers to entropy and that entropy is the central quantity in the second law of thermodynamics The second law is always on running in the background of our lives providing a way to differentiate between past and future We know that the future will be a state of higher entropy than the past and we have Boltzmann to thank for discovering the equation that underlies that fundamental trend Johnson accessibly and engagingly reassembles Boltzmann's equation from its various components and presents episodes from Boltzmann's life beginning at the end with Boltzmann Kills Himself and Boltzmann Is Buried Not Once But Twice Johnson explains the second law in simple terms introduces key concepts through thought experiments and explores Boltzmann's work He argues that Boltzmann diagnosed by his contemporaries as neurasthenic suffered from an anxiety disorder He was says Johnson a man of reason who suffered from irrational concerns about his work worrying especially about opposition from the scientific establishment of the day Johnson's clear and concise explanations will acquaint the nonspecialist reader with such seemingly esoteric concepts as microstates macrostates fluctuations the distribution of energy log functions and equilibrium He describes Boltzmann's relationships with other scientists including Max Planck and Henri Poincaré and finally imagines an alternative ending in which Boltzmann lived on and died of natural causes

Jožef Stefan: His Scientific Legacy on the 175th Anniversary of His Birth John C. Crepeau, 2013-02-20 Most scientists and engineers are familiar with the name Josef Stefan primarily from the Stefan Boltzmann law which relates the amount of energy transferred by radiation to the absolute temperature raised to the fourth power Stefan determined this law from experimental data and it was later theoretically verified by his former student Ludwig Boltzmann However it is interesting to know that this is the same Stefan who lent his name to the solid liquid phase change problem and concepts related to molecular diffusion and convective motion driven by surface evaporation or ablation Stefan counted among his students Sigmund Freud who was so inspired by his physics instructor that he incorporated scientific methods into

psychoanalysis This invaluable book details not only Josef Stefan's original contributions in these areas but the current state of the art of his pioneering work **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 Schrödinger 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 [The Oxford Handbook of German Philosophy in the Nineteenth Century](#) Michael N. Forster, Kristin Gjesdal, 2015-02-05 The Oxford Handbook of German Philosophy in the Nineteenth Century is the first collective critical study of this important period in intellectual history The volume is divided into four parts The first part explores individual philosophers including Fichte Hegel Schopenhauer Marx and Nietzsche amongst other great thinkers of the period The second addresses key philosophical movements Idealism Romanticism Neo Kantianism and Existentialism The essays in the third part engage with different areas of philosophy that received particular attention at this time including philosophy of nature philosophy of mind philosophy of language philosophy of history and hermeneutics Finally the contributors turn to discuss central philosophical topics from skepticism to materialism from dialectics to ideas of historical and cultural Otherness and from the reception of antiquity to atheism Written by a team of leading experts this Handbook will be an essential resource for anyone working in the area and will lead the direction of future research **Enchantment Of Urania, The: 25 Centuries Of Exploration Of The Sky** Massimo Capaccioli, 2024-03-19 Today we know much about the sky how stars are born how they live and die and how the universe as a whole evolves We have learned of the existence of another type of matter indifferent to light and yet decisive for the formation of galaxies and we have a hint of a dark energy that since the last 4-5 billion years has taken over the control of the cosmos We postulated and then discovered and even photographed black holes and listened to the faint rustle of the space-time ripple produced when these monsters devour each other We reached these astonishing results

recognized by a bunch of Nobel Prizes and filling every day the media with wonders for the eyes and the mind by the marriage of physics and astronomy that unified the Earth with the sky and then by the leap forward of science and technology in the Twentieth Century This rich heritage has ancient roots It was built by accumulating discoveries with errors observations with fantasies myths and superstitions with flashes of genius over a span of millennia since Homo sapiens turning his eyes to the immutable and perfect sky began to ask questions The book is a narration of the answers to these questions that had evolved over time a progressive path inserted in the general history with some second thoughts and many obstacles This is a saga of men and machines where greatness sometimes mixes with misery and passion often borders on sacrifice and even martyrdom Why should we know it Because our current knowledge is the result of these efforts and of the preconceptions that accompanied them The challenge has been to present this complex and intricate subject without resorting to any formulas so that it can be accessible to a wide audience of curious people including high school and university students and in general all those who normally keep themselves informed of scientific things A rich bibliography has also been added in the appendix for those wishing to learn more on one or more topics

Boltzmann's Legacy Jakob Yngvason, 2008 Ludwig Eduard Boltzmann 1844 1906 was an Austrian physicist famous for his founding contributions in the fields of statistical mechanics and statistical thermodynamics He was one of the most important advocates for atomic theory when that scientific model was still highly controversial To commemorate the 100th anniversary of his death in Duino the International Symposium Boltzmann's Legacy was held at the Erwin Schrodinger International Institute for Mathematical Physics in June 2006 This text covers a broad spectrum of topics ranging from equilibrium statistical and nonequilibrium statistical physics ergodic theory and chaos to basic questions of biology and historical accounts of Boltzmann's work Besides the lectures presented at the symposium the volume also contains contributions specially written for this occasion The articles give a broad overview of Boltzmann's legacy to the sciences from the standpoint of some of today's leading scholars in the field The book addresses students and researchers in mathematics physics and the history of science

Philosophy of Physics Jeremy Butterfield, John Earman, 2007 The ambition of this volume is twofold to provide a comprehensive overview of the field and to serve as an indispensable reference work for anyone who wants to work in it For example any philosopher who hopes to make a contribution to the topic of the classical quantum correspondence will have to begin by consulting Klaas Landsman's chapter The organization of this volume as well as the choice of topics is based on the conviction that the important problems in the philosophy of physics arise from studying the foundations of the fundamental theories of physics It follows that there is no sharp line to be drawn between philosophy of physics and physics itself Some of the best work in the philosophy of physics is being done by physicists as witnessed by the fact that several of the contributors to the volume are theoretical physicists viz Ellis Emch Harvey Landsman Rovelli t Hooft the last of whom is a Nobel laureate Key features Definitive discussions of the philosophical implications of modern physics Masterly expositions of the fundamental theories of

modern physics Covers all three main pillars of modern physics relativity theory quantum theory and thermal physics Covers the new sciences grown from these theories for example cosmology from relativity theory and quantum information and quantum computing from quantum theory Contains special Chapters that address crucial topics that arise in several different theories such as symmetry and determinism Written by very distinguished theoretical physicists including a Nobel Laureate as well as by philosophers Definitive discussions of the philosophical implications of modern physics Masterly expositions of the fundamental theories of modern physics Covers all three main pillars of modern physics relativity theory quantum theory and thermal physics Covers the new sciences that have grown from these theories for example cosmology from relativity theory and quantum information and quantum computing from quantum theory Contains special Chapters that address crucial topics that arise in several different theories such as symmetry and determinism Written by very distinguished theoretical physicists including a Nobel Laureate as well as by philosophers

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Ludwig Boltzmann The Man Who Trusted Atoms Introduction

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