

EINSTEIN STUDIES

VOLUME  
10

# Einstein Studies in Russia

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# Einstein Studies In Russia

**F Rizvi**



## **Einstein Studies In Russia:**

**Einstein Studies in Russia** Yuri Balashov, Vladimir Pavlovich Vizgin, 2002 This volume presents a selection of contributions by Russian scholars historians and philosophers to science to the Einstein Studies industry broadly construed This work explores the historical and foundational issues in general relativity and relativistic cosmology Einstein s contributions to early quantum mechanics and the rise of Dirac s quantum electrodynamics It also includes a detailed description of the physics colloquium Einstein established and coordinated in 1912 1913 and comments on his brief interest in the construction of the plane wing in 1916 most scholars Materials from various Russian archives shed new light on the famous exchange regarding the first evolutionary cosmological models between Einstein and Alexander Friedmann in the early 1920s and on the role of Boris Podolsky and Vladimir Fock in the emergence of quantum electrodynamics The little known correspondence between Einstein and a famous German pilot Paul Erhardt suggests that during World War I the former was involved with aero and hydrodynamics research and ways of improving airplane design Other articles introduce new approaches to important foundational questions in general relativity and cosmology *Einstein Studies in Russia* Yuri Balashov, Vladimir Vizgin, 2012-11-10 This engaging volume offers a selection of the best contributions by Russian historians and philosophers of science to the Einstein Studies industry

**Beyond Einstein** David E. Rowe, Tilman Sauer, Scott A. Walter, 2018-06-18 Beyond Einstein Perspectives on Geometry Gravitation and Cosmology explores the rich interplay between mathematical and physical ideas by studying the interactions of major actors and the roles of important research communities over the course of the last century *The Cambridge Companion to Einstein* Michel Janssen, Christoph Lehner, 2014-05-19 This volume is the first systematic presentation of the work of Albert Einstein comprising fourteen essays by leading historians and philosophers of science that introduce readers to his work Following an introduction that places Einstein s work in the context of his life and times the book opens with essays on the papers of Einstein s miracle year 1905 covering Brownian motion light quanta and special relativity as well as his contributions to early quantum theory and the opposition to his light quantum hypothesis Further essays relate Einstein s path to the general theory of relativity 1915 and the beginnings of two fields it spawned relativistic cosmology and gravitational waves Essays on Einstein s later years examine his unified field theory program and his critique of quantum mechanics The closing essays explore the relation between Einstein s work and twentieth century philosophy as well as his political writings **Cultural Studies on**

**Einstein's Relativity** Ernst Gehrcke, 2022-05-21 Why study Einstein s relativity from a cultural point of view the theory as well as the universal consensus it receives On the one hand every human phenomenon can be looked at from this point of view but here we are faced with something special the American magazine Time which every December dedicates a cover to the person of the year on the latest issue in 1999 named the person of the century and who was this person if not Einstein From 1919 in a sensational way but the signs of the phenomenon began to be observed already around 1910 the author of a

theory that is almost impossible to make understandable to those who are not specialists enjoys generalized consensus among specialists and a popularity by the public of the whole world which has remained unchanged until the present No one expressed this better than Chaplin once he was acclaimed in public in the company of Einstein They cheer me because they all understand me and they cheer you because no one understands you The little known contemporary Gehrcke if we have the patience to follow him could lead the way to understand something of this Ernst Gehrcke 1878 1960 was an academic physicist a good connoisseur of Kant's philosophy a technologist of electromagnetism inventor of instruments for measuring interference an editor of monumental manuals on optics and radiology an expert in palaeontology and prehistory some photographs available on the Internet show him intent on ordering geological samples and lithic finds and in addition to all this he was the first to think that it was necessary to study relativity from a cultural point of view In this book we will read his attempts in this direction which began in 1912 when general relativity did not yet exist but special relativity had already inflamed with enthusiasm some students and physicists of the new generation in Germany and beyond 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 The Making of Modern Physics in Colonial India Somaditya Banerjee, 2020-05-14 This monograph offers a cultural history of the development of physics in India during the first half of the twentieth century focusing on Indian physicists Satyendranath Bose 1894 1974 Chandrasekhara Venkata Raman 1888 1970 and Meghnad Saha 1893 1956 The analytical category bhadrak physics is introduced to explore how it became possible for a highly successful brand of modern science to develop in a country that was still under colonial domination The term Bhadrak refers to the then emerging group of native intelligentsia who were identified by academic pursuits and manners Exploring the forms of life of this social group allows a better understanding of the specific character of Indian modernity that as exemplified by the work of bhadrak physicists combined modern science with indigenous knowledge in an original program of scientific research The three scientists achieved the most significant scientific successes in the new revolutionary field of quantum physics with

such internationally recognized accomplishments as the Saha ionization equation 1921 the famous Bose Einstein statistics 1924 and the Raman Effect 1928 the latter discovery having led to the first ever Nobel Prize awarded to a scientist from Asia This book analyzes the responses by Indian scientists to the radical concept of the light quantum and their further development of this approach outside the purview of European authorities The outlook of bhadralok physicists is characterized here as cosmopolitan nationalism which allows us to analyze how the group pursued modern science in conjunction with and as an instrument of Indian national liberation *Leonid Isaakovich Mandelstam* Alexander Pechenkin, 2013-10-05 This biography of the famous Soviet physicist Leonid Isaakovich Mandelstam 1889 1944 who became a Professor at Moscow State University in 1925 describes his contributions to both physics and technology as well as discussing the scientific community which formed around him usually called the Mandelstam school Mandelstam's life story is thereby placed in its proper cultural context The following more general issues are taken under consideration the impact of German scientific culture on Russian science the problems and fates of Russian intellectuals during the revolutionary and post revolutionary years the formation of the Soviet Academy of Sciences and transformation of the system of higher education in the USSR during the 1920 s and 1930 s The author shows that Mandelstam's fundamental writings and his lectures notes allow to reconstruct his philosophy of science and his approach to the social and ethical functions of science and science education That reconstruction is enhanced through extensive use of hitherto unpublished archival material as well as the transcripts of personal interviews conducted by the author

**The Oxford Handbook of the History of Quantum Interpretations** Olival Freire Jr, Guido Bacciagaluppi, Olivier Darrigol, Thiago Hartz, Christian Joas, Alexei Kojevnikov, Osvaldo Pessoa Jr, 2022-03-07 Crucial to most research in physics as well as leading to the development of inventions such as the transistor and the laser quantum mechanics approaches its centenary with an impressive record However the field has also long been the subject of ongoing debates about the foundations and interpretation of the theory referred to as the quantum controversy This Oxford Handbook offers a historical overview of the contrasts which have been at the heart of quantum physics for the last 100 years Drawing on the wide ranging expertise of several contributors working across physics history and philosophy the handbook outlines the main theories and interpretations of quantum physics It goes on to tackle the key controversies surrounding the field touching on issues such as determinism realism locality classicality information measurements mathematical foundations and the links between quantum theory and gravity This engaging introduction is an essential guide for all those interested in the history of scientific controversies and history of quantum physics It also provides a fascinating examination of the potential of quantum physics to influence new discoveries and advances in fields such quantum information and computing

*Einstein, Tagore and the Nature of Reality* Partha Ghose, 2016-06-23 The nature of reality has been a long debated issue among scientists and philosophers In 1930 Rabindranath Tagore and Albert Einstein had a long conversation on the nature of reality This conversation has been widely

quoted and discussed by scientists philosophers and scholars from the literary world The important question that Tagore and Einstein discussed was whether the world is a unity dependent on humanity or the world is a reality independent on the human factor Einstein took the stand adopted by Western philosophers and mathematicians namely that reality is something independent of the mind and the human factor Tagore on the other hand adopted the opposite view Nevertheless both Einstein and Tagore claimed to be realists despite the fundamental differences between their conceptions of reality Where does the difference lie Can it be harmonized at some deeper level Can Wittgenstein for example be a bridge between the two views This collection of essays explores these two fundamentally different conceptions of the nature of reality from the perspectives of theories of space time quantum theory general philosophy of science cognitive science and mathematics

**L.I. Mandelstam and His School in Physics** Alexander Pechenkin, 2019-09-23 This biography of the famous Soviet physicist Leonid Isaakovich Mandelstam 1889 1944 who became a Professor at Moscow State University in 1925 and an Academician the highest scientific title in the USSR in 1929 describes his contributions to both physics and technology It also discusses the scientific community that formed around him commonly known as the Mandelstam School By doing so it places Mandelstam's life story in its cultural context the context of German University until 1914 the First World War the Civil War and the development of the Socialist Revolution until 1925 and the young socialist country The book considers various general issues such as the impact of German scientific culture on Russian science the problems and fates of Russian intellectuals during the revolutionary and post revolutionary years the formation of the Soviet Academy of Science the State Academy and the transformation of the system of higher education in the USSR during the 1920s and 1930s Further it reconstructs Mandelstam's philosophy of science and his approach to the social and ethical function of science and science education based on his fundamental writings and lecture notes This reconstruction is enhanced by extensive use of previously unpublished archive material as well as the transcripts of personal interviews conducted by the author The book also discusses the biographies of Mandelstam's friends and collaborators German mathematician and philosopher Richard von Mises Soviet Communist Party official and philosopher B M Hessen Russian specialist in radio engineering N D Papalexy the specialists in non linear dynamics A A Andronov S E Chaikin A A Vitt and the plasma physicist M A Leontovich This second extended edition reconstructs the social and economic backgrounds of Mandelstam and his colleagues describing their positions at the universities and the institutes belonging to the Academy of Science Additionally Mandelstam's philosophy of science is investigated in connection with the ideological attacks that occurred after Mandelstam's death particularly the great mathematician A D Alexandrov's criticism of Mandelstam's operationalism *The Universe of General Relativity* A.J. Kox, Jean Eisenstaedt, 2006-09-10 A century ago in 1905 Albert Einstein published *On the Electrodynamics of Moving Bodies* in which the foundations were laid for the Special Theory of Relativity Ten years later his relativistic theory of gravitation and the General Theory of Relativity appeared Fifty years ago Einstein passed away in Princeton In the 1980s John

Stachel then Editor of the Collected Papers of Albert Einstein brought together a group of historians philosophers physicists and mathematicians who had one thing in common a lively interest in the history and foundations of the theories of relativity At a meeting in 1986 at Osgood Hill this group met for the first time to discuss the prehistory development reception and other aspects of relativity It was the beginning of a valuable tradition Since then every three or four years a meeting has been organized during which historical and foundational issues in general and special relativity have been discussed Osgood Hill was followed by Luminy in 1988 Then came Johnstown 1991 Berlin 1995 Notre Dame 1999 and finally Amsterdam 2002 the proceedings of which are presented in this volume supplemented with some papers from the preceding meeting Once again these articles clearly show that an historical approach can lead to new insights into the development and elaboration of relativity The prehistory of special relativity and an early attempt at a relativistic theory of gravitation are covered in parts by John Stachel and Shaul Katzir respectively

Women and Gender in Central and Eastern Europe, Russia, and Eurasia Mary Zirin, Irina Livezeanu, Christine D. Worobec, June Pachuta Farris, 2015-03-26 This is the first comprehensive multidisciplinary and multilingual bibliography on Women and Gender in East Central Europe and the Balkans Vol 1 and The Lands of the Former Soviet Union Vol 2 over the past millennium The coverage encompasses the relevant territories of the Russian Hapsburg and Ottoman empires Germany and Greece and the Jewish and Roma diasporas Topics range from legal status and marital customs to economic participation and gender roles plus unparalleled documentation of women writers and artists and autobiographical works of all kinds The volumes include approximately 30 000 bibliographic entries on works published through the end of 2000 as well as web sites and unpublished dissertations Many of the individual entries are annotated with brief descriptions of major works and the tables of contents for collections and anthologies The entries are cross referenced and each volume includes indexes

David Hilbert and the Axiomatization of Physics (1898-1918) L. Corry, 2013-06-29 David Hilbert 1862-1943 was the most influential mathematician of the early twentieth century and together with Henri Poincaré the last mathematical universalist His main known areas of research and influence were in pure mathematics algebra number theory geometry integral equations and analysis logic and foundations but he was also known to have some interest in physical topics The latter however was traditionally conceived as comprising only sporadic incursions into a scientific domain which was essentially foreign to his mainstream of activity and in which he only made scattered if important contributions Based on an extensive use of mainly unpublished archival sources the present book presents a totally fresh and comprehensive picture of Hilbert's intense original well informed and highly influential involvement with physics that spanned his entire career and that constituted a truly main focus of interest in his scientific horizon His program for axiomatizing physical theories provides the connecting link with his research in more purely mathematical fields especially geometry and a unifying point of view from which to understand his physical activities in general In particular the now famous dialogue and interaction between Hilbert and Einstein leading to the formulation in 1915 of the generally covariant

field equations of gravitation is adequately explored here within the natural context of Hilbert's overall scientific world view. This book will be of interest to historians of physics and of mathematics, to historically minded physicists and mathematicians, and to philosophers of science. *Thinking About Space and Time* Claus Beisbart, Tilman Sauer, Christian

Wüthrich, 2020-09-25 This volume offers an integrated understanding of how the theory of general relativity gained momentum after Einstein had formulated it in 1915. Chapters focus on the early reception of the theory in physics and philosophy and on the systematic questions that emerged shortly after Einstein's momentous discovery. They are written by physicists, historians of science, and philosophers and were originally presented at the conference titled *Thinking About Space and Time: 100 Years of Applying and Interpreting General Relativity* held at the University of Bern from September 12-14, 2017. By establishing the historical context first and then moving into more philosophical chapters, this volume will provide readers with a more complete understanding of early applications of general relativity, e.g. to cosmology, and of related philosophical issues. Because the chapters are often cross-disciplinary, they cover a wide variety of topics related to the general theory of relativity. These include: Heuristics used in the discovery of general relativity; Mach's Principle; The structure of Einstein's theory; Cosmology and the Einstein world; Stability of cosmological models; The metaphysical nature of spacetime; The relationship between spacetime and dynamics; The Geodesic Principle; Symmetries. *Thinking About Space and Time* will be a valuable resource for historians of science and philosophers who seek a deeper knowledge of the early and later uses of general relativity, as well as for physicists and mathematicians interested in exploring the wider historical and philosophical context of Einstein's theory. *Towards a Theory of Spacetime Theories* Dennis Lehmkuhl, Gregor Schiemann, Erhard

Scholz, 2017-01-05 This contributed volume is the result of a July 2010 workshop at the University of Wuppertal Interdisciplinary Centre for Science and Technology Studies, which brought together world-wide experts from physics, philosophy, and history in order to address a set of questions first posed in the 1950s: How do we compare spacetime theories? How do we judge objectively which is the best theory? Is there even a unique answer to this question? The goal of the workshop and of this book is to contribute to the development of a meta-theory of spacetime theories. Such a meta-theory would reveal insights about specific spacetime theories by distilling their essential similarities and differences, deliver a framework for a class of theories that could be helpful as a blueprint to build other meta-theories, and provide a higher-level viewpoint for judging which theory most accurately describes nature. But rather than drawing a map in broad strokes, the focus is on particularly rich regions in the space of spacetime theories. This work will be of interest to physicists as well as philosophers and historians of science working with or interested in General Relativity and/or Space, Time, and Gravitation more generally. *The Practical Einstein* József Illy, 2012-03-12 Albert Einstein may be best known as the wire-haired, whacky physicist who gave us the theory of relativity, but that's just one facet of this genius's contribution to human knowledge and modern science. As József Illy expertly shows in this book, Einstein had an eminently practical side as well. As a



youth Einstein was an inveterate tinkerer in the electrical supply factory his father and uncle owned and operated His first paid job was as a patent examiner Later in life Einstein contributed to many inventions including refrigerators microphones and instruments for aviation In published papers Einstein often provided ways to test his theories and fundamental problems of the scientific community of his times He delved deeply into a variety of technological innovations most notably the gyrocompass and consulted for industry in patent cases and on other legal matters Einstein also provided explanations for common and mundane phenomena such as the meandering of rivers In these and other hands on examples culled from the Einstein Papers Illy demonstrates how Einstein enjoyed leaving the abstract world of theories to wrestle with the problems of everyday life While we may like the idea of Einstein as a genius besotted by extra dimensions and too out of this world to wear socks The Practical Einstein gives ample evidence that this characterization is both incomplete and an unfair representation of a man who sought to explore the intricacies of nature whether in theory or in practice Soviet Russia Pictorial ,1921 *Stargazing in the Atomic Age* Anne Goldman,2021-01-15 A Kirkus Best Book of the Year During World War II with apocalypse imminent a group of well known Jewish scientists and artists sidestepped despair by challenging themselves to solve some of the most difficult questions posed by our age Many had just fled Europe Others were born in the United States to immigrants who had escaped Russia s pogroms Alternately celebrated as mavericks and dismissed as eccentrics they trespassed the boundaries of their own disciplines as the entrance to nations slammed shut behind them In *Stargazing in the Atomic Age* Anne Goldman interweaves personal and intellectual history in exuberant essays that cast new light on these figures and their virtuosic thinking In lyric lucent sentences that dance between biography and memoir as they connect innovation in science with achievement in the arts Goldman yokes the central dramas of the modern age with the brilliant thinking of earlier eras Here Einstein plays Mozart to align mathematical principle with the music of the spheres and Rothko paints canvases whose tonalities echo the stark prose of Genesis Nearby Bellow evokes the dirt and dazzle of the Chicago streets while upon the heels of World War II Chagall illuminates stained glass no less buoyant than the effervescent notes of Gershwin s Rhapsody in Blue In these essays Goldman reminds readers that Jewish history offers as many illustrations of accomplishment as of affliction At the same time she gestures toward the ways in which experiments in science and art that defy partisanship can offer us inspiration during a newly divisive era **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 Enigmatic Realm of **Einstein Studies In Russia**: Unleashing the Language is Inner Magic

In a fast-paced digital era where connections and knowledge intertwine, the enigmatic realm of language reveals its inherent magic. Its capacity to stir emotions, ignite contemplation, and catalyze profound transformations is nothing in short supply of extraordinary. Within the captivating pages of **Einstein Studies In Russia** a literary masterpiece penned with a renowned author, readers attempt a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book's core themes, assess its distinct writing style, and delve into its lasting impact on the hearts and minds of those who partake in its reading experience.

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