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PETER GALISON

EINSTEIN'S CLOCKS,  
POINCARÉ'S MAPS

Empires of Time

# Einsteins Clocks Poincares Maps Empires

**Benjamin Paloff**



## **Einsteins Clocks Poincares Maps Empires:**

Einstein's Clocks, Poincaré's Maps Peter Galison, 2004 In May 1905 Einstein published his theory of relativity changing time forever This title is a dramatic account of the quest to synchronize time that culminated in the revolutionary theory As Peter Galison argues relativity was borne of urgent practical necessity Clocks and trains telegraphs and colonial conquest the challenges of the late 19th century provided an indispensable real world background to the theoretical breakthrough Europe's burgeoning rail network Only a century ago the continent had hundred of time zones and no universal system for synchronizing them Given that local time could vary from town to town scheduling rail services was hard but vital not least to stop trains from colliding as they hurtled in opposite directions along single tracks In his role as president of the French Bureau of Longitude a remit of which was to map colonial Africa Henri Poincare grappled with a similar issue Synchronized clocks set by telegraph signal from Paris were necessary to determine longitude and provide the precise coordinates his cartographers needed to tell the story of these two giants whose concrete preoccupations engaged them in a silent race towards a theory that overturned 200 years received thinking *Einstein's Clocks, Poincaré's Maps* Peter Louis Galison, 2003 In May 1905 Albert Einstein changed time forever his theory of relativity had practical consequences that changed the world Only a century ago Europe had a huge number of local time zones and no proper system of synchronizing them This threatened chaos particularly on the railways and communications Synchronized time was necessary to create timetables for passengers and stop trains from crashing as they hurtled in opposite directions along single tracks

*Einstein's Clocks and Poincare's Maps: Empires of Time* Peter Galison, 2004-09-14 In Galison's telling of science the meters and wires and epoxy and solder come alive as characters along with physicists engineers technicians and others Galison has unearthed fascinating material New York Times *Science Secrets* Alberto A. Martinez, 2011-05-29 Was Darwin really inspired by Galapagos finches Did Einstein's wife secretly contribute to his theories Did Franklin fly a kite in a thunderstorm Did a falling apple lead Newton to universal gravity Did Galileo drop objects from the Leaning Tower of Pisa Did Einstein really believe in God *Science Secrets* answers these questions and many others It is a unique study of how myths evolve in the history of science Some tales are partly true others are mostly false yet all illuminate the tension between the need to fairly describe the past and the natural desire to fill in the blanks Energetically narrated *Science Secrets* pits famous myths against extensive research from primary sources in order to accurately portray important episodes in the sciences Alberto A Martinez analyzes how such myths grow and rescues neglected facts that are more captivating than famous fictions Moreover he shows why opinions that were once secret and seemingly impossible are now scientifically compelling The book includes new findings related to the Copernican revolution alchemy Pythagoras young Einstein and other events and figures in the history of science **Screening the Operatic Stage** Christopher Morris, 2024-03-29 An ambitious study of the ways opera has sought to ensure its popularity by keeping pace with changes in media technology From the early days of television

broadcasts to today's live streams opera houses have embraced technology as a way to reach new audiences But how do these new forms of remediated opera extend amplify or undermine production values and what does the audience gain or lose in the process In *Screening the Operatic Stage* Christopher Morris critically examines the cultural implications of opera's engagement with screen media Foregrounding the potential for a playful exchange and self awareness between stage and screen Morris uses the conceptual tools of media theory to understand the historical and contemporary screen cultures that have transmitted the opera house into living rooms onto desktops and portable devices and across networks of movie theaters If these screen cultures reveal how inherently technological opera is as a medium they also highlight a deep suspicion among opera producers and audiences toward the intervention of media technology Ultimately *Screening the Operatic Stage* shows how the conventions of televisual representation employed in opera have masked the mediating effects of technology in the name of fidelity to live performance

*Pluralisation and social change* Lars Charbonnier, Johan Cilliers, Matthias Mader, Cas Wepener, Birgit Weyel, 2018-09-24 Die Pluralisierung des Religiösen die ein besonders prägnantes Kennzeichen gegenwärtig stattfindender gesellschaftlicher Wandlungsprozesse ist stellt eine enorme Herausforderung für viele Akteure in Kirche Zivilgesellschaft Wirtschaft und Politik dar Das Ziel dieses Buches ist es den Begriff der religiösen Pluralisierung zu schärfen indem er am Beispiel konkreter religiöser Phänomene und Praktiken entfaltet wird Der Band umfasst Beiträge zu zwölf Themenfeldern die für die praktisch theologischen Diskurse in Südafrika und in Deutschland prägend und gegenwärtig von hoher Relevanz sind Armut und Reichtum Bildung Schwellenriten und Passagen Gesundheit Religiöse Vergemeinschaftungen und die Zukunft der Kirche Lebensanfang und Lebensende Medienwandel Migration und Interkulturalität Populismus und Radikalisierung Religion und Wissen Umgang mit Vergangenheit Zusammenleben Mit diesem dialogischen Verfahren wird ein Beitrag zu einer kontextuellen Theologie geleistet die Theologie wesentlich als Gespräch versteht Die Pluralisierungsthematik hält Impulse für eine kreativ konstruktive Gestaltung von Pluralität im Sinne eines theologisch reflektierten Pluralismus bereit die für Kirche und Gesellschaft im 21. Jahrhundert wegweisend sein kann

*The Many Voices of Modern Physics* Joseph E. Harmon, Alan G. Gross, 2023-03-07 *The Many Voices of Modern Physics* follows a revolution that began in 1905 when Albert Einstein published papers on special relativity and quantum theory Unlike Newtonian physics this new physics often departs wildly from common sense a radical divorce that presents a unique communicative challenge to physicists when writing for other physicists or for the general public and to journalists and popular science writers as well In their two long careers Joseph Harmon and the late Alan Gross have explored how scientists communicate with each other and with the general public Here they focus not on the history of modern physics but on its communication In their survey of physics communications and related persuasive practices they move from peak to peak of scientific achievement recalling how physicists use the communicative tools available in particular thought experiments analogies visuals and equations to convince others that what they say is not only true but significant that it must be

incorporated into the body of scientific and general knowledge Each chapter includes a chorus of voices from the many celebrated physicists who devoted considerable time and ingenuity to communicating their discoveries to the science journalists who made those discoveries accessible to the public and even to philosophers sociologists historians an opera composer and a patent lawyer With their final collaboration Harmon and Gross offer a tribute to the communicative practices of the physicists who convinced their peers and the general public that the universe is a far more bizarre and interesting place than their nineteenth century predecessors imagined *Connected* Steven Cassedy,2014-01-01 Between the end of the nineteenth century and the beginning of the twentieth Americans underwent a dramatic transformation in self conception having formerly lived as individuals or members of small communities they now found themselves living in networks which arose out of scientific and technological innovations There were transportation and communication networks There was the network of the globalized marketplace which brought into the American home exotic goods previously affordable to only a few There was the network of standard time which bound together all but the most rural Americans There was the public health movement which joined individuals to their fellow citizens by making everyone responsible for the health of everyone else There were social networks that joined individuals to their fellows at the municipal state national and global levels Previous histories of this era focus on alienation and dislocation that new technologies caused This book shows that American individuals in this era were more connected to their fellow citizens than ever but by bonds that were distinctly modern

**The Phenomenology of Real and Virtual Places** Erik Malcolm Champion,2018-10-26 This collection of essays explores the history implications and usefulness of phenomenology for the study of real and virtual places While the influence of phenomenology on architecture and urban design has been widely acknowledged its effect on the design of virtual places and environments has yet to be exposed to critical reflection These essays from philosophers cultural geographers designers architects and archaeologists advance the connection between phenomenology and the study of place The book features historical interpretations on this topic as well as context specific and place centric applications that will appeal to a wide range of scholars across disciplinary boundaries The ultimate aim of this book is to provide more helpful and precise definitions of phenomenology that shed light on its growth as a philosophical framework and on its development in other disciplines concerned with the experience of place **William Kentridge & Peter L. Galison** Peter L. Galison,William Kentridge,2011-06-10 Unsere Auffassungen von Zeit ver ndern sich fortw hrend auf vielschichtige Art und Weise Dies ist eine Untersuchung dieser Verschiebungen und K mpfe in Form von Zeichnungen und Texten Musik und Bewegung bis hin zu Filmen und Konzepten Gegen Ende des 19 Jahrhunderts wurde Zeit bergreifend organisiert D rfer St dte ganze L nder wurden ihrer eigenen Zeit beraubt als die Uhren mithilfe von Signalen synchronisiert wurden Albert Einstein stie mit seiner radikalen Idee die die Vorstellung eines berallh rbaren Tik Tak zugunsten von Zeiten die nicht Zeit sind au er Kraft setzte auf erbitterten Widerstand Auch in unserem eigenen Zeitalter wird die Zeit wieder durcheinandergewirbelt die Zeit wird mit

Informationen gekreuzt sie wird herausgefordert am Horizont Schwarzer L cher oder sogar von vielen Stringtheoretikern als pure Illusion dargestellt In einer kongenialen langfristigen Partnerschaft mit Peter L Galison Historiker Autor Filmemacher sowie Professor f r die Geschichte der Wissenschaften und der Physik an der Harvard University widmet sich der s dafrikanische K nstler William Kentridge der Erforschung dieser Ideen in Die Ablehnung der Zeit ein Projekt f r die dOCUMENTA 13 in dessen Entstehen das vorliegende Notizbuch Einblick gew hrt Sprache Deutsch Englisch William Kentridge 1955 in Johannesburg S dafrika schloss 1976 ein Studium der Politik und Afrikanistik an der Witwatersrand Universit t in Johannesburg ab 1976 1978 studierte er Druckgrafik an der Johannesburg Art Foundation 1981 82 nahm er an der cole internationale de th tre Jacques Lecog in Paris Pantomime und Schauspielunterricht Seit den 1980er Jahren wurde sein Werk in zahlreichen Einzel und Gruppenausstellungen gezeigt F nf Themen etwa war 2010 am MoMA New York dem Jeu de Paume Paris und an der Albertina Wien zu sehen Kentridge war Teilnehmer der documenta X 1997 sowie der Documenta11 2002 und ist auch auf der dOCUMENTA 13 2012 vertreten Er wurde mit verschiedenen Preisen ausgezeichnet darunter 2003 mit dem Kaiserring der Stadt Goslar 2010 mit dem Kyoto Preis f r Kunst und Philosophie Der K nstler lebt und arbeitet in Johannesburg Stand Juni 2012 William Kentridge 1955 in Johannesburg S dafrika schloss 1976 ein Studium der Politik und Afrikanistik an der Witwatersrand Universit t in Johannesburg ab 1976 1978 studierte er Druckgrafik an der Johannesburg Art Foundation 1981 82 nahm er an der cole internationale de th tre Jacques Lecog in Paris Pantomime und Schauspielunterricht Seit den 1980er Jahren wurde sein Werk in zahlreichen Einzel und Gruppenausstellungen gezeigt F nf Themen etwa war 2010 am MoMA New York dem Jeu de Paume Paris und an der Albertina Wien zu sehen Kentridge war Teilnehmer der documenta X 1997 sowie der Documenta11 2002 und ist auch auf der dOCUMENTA 13 2012 vertreten Er wurde mit verschiedenen Preisen ausgezeichnet darunter 2003 mit dem Kaiserring der Stadt Goslar 2010 mit dem Kyoto Preis f r Kunst und Philosophie Der K nstler lebt und arbeitet in Johannesburg Stand Juni 2012

**Painting US Empire**

Maggie M. Cao, 2025-01-03 A fresh look at the global dimensions of US painting from the 1850s to 1898 Painting US Empire is the first book to offer a synthetic account of art and US imperialism around the globe in the nineteenth century In this work art historian Maggie M Cao crafts a nuanced portrait of nineteenth century US painters complicity with and resistance to ascendant US imperialism offering eye opening readings of canonical works landscapes of polar expeditions and tropical tourism still lifes of imported goods genre paintings and ethnographic portraiture Revealing how the US empire was hidden in plain sight in the art of this period Cao examines artists including Frederic Edwin Church and Winslow Homer who championed and expressed ambivalence toward the colonial project She also tackles the legacy of US imperialism examining Euro American painters of the past alongside global artists of the present Pairing each chapter with reflections on works by contemporary anticolonial artists including Tavares Strachan Nicholas Galanin and Yuki Kihara Cao addresses important contemporary questions around representation colonialism and indigeneity This book foregrounds an underacknowledged

topic in the study of nineteenth century US art and illuminates the ongoing ecological and economic effects of the US empire

*The Poincaré Conjecture* Donal O'Shea, 2008-10-30 The Poincaré Conjecture tells the story behind one of the world's most confounding mathematical theories. Formulated in 1904 by Henri Poincaré, his Conjecture promised to describe the very shape of the universe but remained unproved until a huge prize was offered for its solution in 2000. Six years later, an eccentric Russian mathematician had the answer. Here Donal O'Shea explains the maths behind the Conjecture and its proof and illuminates the curious personalities surrounding this perplexing conundrum along the way, taking in a grand sweep of scientific history from the ancient Greeks to Christopher Columbus. This is an enthralling tale of human endeavour, intellectual brilliance and the thrill of discovery.

**Bertrand Russell and Albert Einstein - Builders of Peace** Claudio Giulio Anta, Bertrand Russell and Albert Einstein had very different cultural backgrounds and personalities. At the same time they were united in their tenacious battle for peace, it began with the Great War and culminated in their famous 1955 Manifesto. Through various kinds of pacifism, they sought to encapsulate the dilemmas and problems that derived from the changed political conditions of his time: the beginning of the Great War, the creation and failure of the League of Nations, the affirmation of totalitarian regimes, the outbreak of the Second World War, the origin of the atomic age and the escalation of the Cold War, the establishment of the UN with its political and institutional weakness and the need for a world government in the form of a world federation. Their reflections on the subject of peace led them into dialogue with some of the greatest figures of their time: R. Rolland, Th. Woodrow Wilson, V. I. Lenin, F. D. Roosevelt, J. F. Kennedy, N. Khrushchev, F. Castro, S. Freud, L. Szilard and E. Reves.

**The Clock Mirage** Joseph Mazur, 2020-04-21 Named one of *Book Riot's* Six Great Nonfiction Books about Time, a tour of clocks throughout the centuries from the sandglass to the telomere that reveals the physical, biological and social nature of time. A mind-stretching book. Skilfully written. John Carey, *Sunday Times*, London. What is time? This question has fascinated philosophers, mathematicians and scientists for thousands of years. Why does time seem to speed up with age? What is its connection with memory, anticipation and sleep cycles? Award-winning author and mathematician Joseph Mazur provides an engaging exploration of how the understanding of time has evolved throughout human history and offers a compelling new vision, submitting that time lives within us. Our cells, he notes, have a temporal awareness guided by environmental cues in sync with patterns of social interaction. Readers learn that as a consequence of time's personal nature, a forty-eight hour journey on the space shuttle can feel shorter than a six-hour trip on the Soyuz capsule, that the Amondawa of the Amazon do not have ages and that time speeds up with fever and slows down when we feel in danger. With a narrative punctuated by personal stories of time's effects on truck drivers, Olympic racers, prisoners and clockmakers, Mazur's journey is filled with fascinating insights into how our technologies, our bodies and our attitudes can change our perceptions. Ultimately, time reveals itself as something that rides on the rhythms of our minds. *The Clock Mirage* presents an innovative perspective that will force us to rethink our relationship with time and how best to use it.

*The Physicist and the*

*Philosopher* Jimena Canales, 2016-10-04 The explosive debate that transformed our views about time and scientific truth On April 6 1922 in Paris Albert Einstein and Henri Bergson publicly debated the nature of time Einstein considered Bergson's theory of time to be a soft psychological notion irreconcilable with the quantitative realities of physics Bergson who gained fame as a philosopher by arguing that time should not be understood exclusively through the lens of science criticized Einstein's theory of time for being a metaphysics grafted on to science one that ignored the intuitive aspects of time *The Physicist and the Philosopher* tells the remarkable story of how this explosive debate transformed our understanding of time and drove a rift between science and the humanities that persists today Jimena Canales introduces readers to the revolutionary ideas of Einstein and Bergson describes how they dramatically collided in Paris and traces how this clash of worldviews reverberated across the twentieth century She shows how it provoked responses from figures such as Bertrand Russell and Martin Heidegger and carried repercussions for American pragmatism logical positivism phenomenology and quantum mechanics Canales explains how the new technologies of the period such as wristwatches radio and film helped to shape people's conceptions of time and further polarized the public debate She also discusses how Bergson and Einstein toward the end of their lives each reflected on his rival's legacy Bergson during the Nazi occupation of Paris and Einstein in the context of the first hydrogen bomb explosion *The Physicist and the Philosopher* is a magisterial and revealing account that shows how scientific truth was placed on trial in a divided century marked by a new sense of time Objectivity

Lorraine Daston, Peter L. Galison, 2021-02-02 *Objectivity* has a history and it is full of surprises In *Objectivity* Lorraine Daston and Peter Galison chart the emergence of objectivity in the mid nineteenth century sciences and show how the concept differs from alternatives truth to nature and trained judgment This is a story of lofty epistemic ideals fused with workaday practices in the making of scientific images From the eighteenth through the early twenty first centuries the images that reveal the deepest commitments of the empirical sciences from anatomy to crystallography are those featured in scientific atlases the compendia that teach practitioners of a discipline what is worth looking at and how to look at it Atlas images define the working objects of the sciences of the eye snowflakes galaxies skeletons even elementary particles Galison and Daston use atlas images to uncover a hidden history of scientific objectivity and its rivals Whether an atlas maker idealizes an image to capture the essentials in the name of truth to nature or refuses to erase even the most incidental detail in the name of objectivity or highlights patterns in the name of trained judgment is a decision enforced by an ethos as well as by an epistemology As Daston and Galison argue atlases shape the subjects as well as the objects of science To pursue objectivity or truth to nature or trained judgment is simultaneously to cultivate a distinctive scientific self wherein knowing and knower converge Moreover the very point at which they visibly converge is in the very act of seeing not as a separate individual but as a member of a particular scientific community Embedded in the atlas image therefore are the traces of consequential choices about knowledge persona and collective sight *Objectivity* is a book addressed to any one interested in the elusive and



crucial notion of objectivity and in what it means to peer into the world scientifically *Lost in the Shadow of the Word* Benjamin Paloff, 2016-12-15 2018 AATSEEL Prize for Best Book in Literary Scholarship Scholars of modernism have long addressed how literature painting and music reflected the radical reconceptualization of space and time in the early twentieth century a veritable revolution in both physics and philosophy that has been characterized as precipitating an epistemic trauma around the world In this wide ranging study Benjamin Paloff contends that writers in Central and Eastern Europe felt this impact quite distinctly from their counterparts in Western Europe For the latter the destabilization of traditional notions of space and time inspired works that saw in it a new kind of freedom However for many Central and Eastern European authors who were writing from within public discourses about how to construct new social realities the need for escape met the realization that there was both nowhere to escape to and no stable delineation of what to escape from In reading the prose and poetry of Czech Polish and Russian writers Paloff imbues the term Kafkaesque with a complexity so far missing from our understanding of this moment in literary history **Postcolonial Opera** Juliana M. Pistorius, 2025-05-27 Postcolonial Opera examines the social and political role of opera in the postcolony Taking the multimedia operatic experiments of William Kentridge South Africa's most celebrated contemporary visual artist as a starting point author Juliana M Pistorius investigates contemporary opera's potential to process the troubled histories that haunt post and decolonial societies Einstein, 1905-2005 Thibault Damour, Olivier Darrigol, Vincent Rivasseau, 2006-04-18 This book is the fourth in a series of lectures of the S eminaire Poincar e which is directed towards a large audience of physicists and of mathematicians The goal of this seminar is to provide up to date information about general topics of great interest in physics Both the theoretical and experimental aspects are covered with some historical background Inspired by the Bourbaki seminar in mathematics in its organization hence nicknamed Bourbaphi the Poincar e Seminar is held twice a year at the Institut Henri Poincar e in Paris with contributions prepared in advance Particular care is devoted to the pedagogical nature of the presentations so as to fulfill the goal of being readable by a large audience of scientists This volume contains the seventh such Seminar held in 2005 It is devoted to Einstein's 1905 papers and their legacy After a presentation of Einstein's epistemological approach to physics and the genesis of special relativity a central perspective is offered The geometry of relativistic spacetime is explained in detail Single photon experiments are presented as a spectacular realization of Einstein's light quanta hypothesis A previously unpublished lecture by Einstein which presents an illuminating point of view on statistical physics in 1910 at the dawn of quantum mechanics is reproduced The volume ends with an essay on the historical physical and mathematical aspects of Brownian motion We hope that the publication of this series will serve the community of physicists and mathematicians at the graduate student or professional level **The Turn to Transcendence** Glenn W. Olsen, 2012-07-30 Phenomenal A must read for us who desire to topple the dictatorship of relativism and culture of death and replace it with the only alternative The Imaginative Conservative Especially concerned with the public nature of religion

historian Glenn W Olsen author of *Christian Marriage A Historical Study* and *On the Road to Emmaus The Catholic Dialogue with American and Modernity* sets forth an exhaustively researched and persuasive account of how religion has been reshaped in the modern period *The Turn to Transcendence* traces both the loss of transcendence and attempts to recover it while making its own proposals Neither reactionary nor modernist it questions how under conditions of modern life some form of the sacred and some form of the secular might both flourish at the same time But it also provides a warning that a religion unable to maintain itself with its own overt architecture language and calendars against an enveloping secular culture is destined for oblivion Glenn Olsen s book could hardly be more pivotal or insightful Confronting the growing amnesia regarding culture s religious origin and transcendent purpose Olsen proves both a masterful cartographer of modernity and a visionary of a culture that encourages and enables us to seek beyond ourselves Carl A Anderson Supreme Knight of the Knights of Columbus A brilliant book It rests on an amazing amount of scholarship that is wide ranging in history literature art science music theology and philosophy James Hitchcock professor of history St Louis University

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In an era characterized by interconnectedness and an insatiable thirst for knowledge, the captivating potential of verbal expression has emerged as a formidable force. Its ability to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the pages of "**Einsteins Clocks Poincares Maps Empires**," a mesmerizing literary creation penned by way of a celebrated wordsmith, readers set about an enlightening odyssey, unraveling the intricate significance of language and its enduring effect on our lives. In this appraisal, we shall explore the book's central themes, evaluate its distinctive writing style, and gauge its pervasive influence on the hearts and minds of its readership.

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