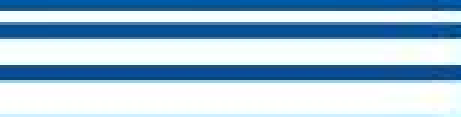


Einstein, 1905–2005

Poincaré Seminar 2005

Thibault Damour
Olivier Darrigol
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Editors



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Einstein, 1905-2005 Thibault Damour, Olivier Darrigol, Vincent Rivasseau, 2006-04-18 This book is the fourth in a series of lectures of the Séminaire Poincaré 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 Poincaré Seminar is held twice a year at the Institut Henri Poincaré in Paris with contributions prepared in advance. Particular care is devoted to the pedagogical nature of the presentations so as to fulfil 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 centenary 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 A previously unpublished lecture by Einstein which presents an illuminating point of view on statistical physics in 1910 at the dawn of quantum mechanics is reproduced.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.

Quantum Field Theory I: Basics in Mathematics and Physics Eberhard Zeidler, 2007-04-18 This is the first volume of a modern introduction to quantum field theory which addresses both mathematicians and physicists at levels ranging from advanced undergraduate students to professional scientists. The book bridges the acknowledged gap between the different languages used by mathematicians and physicists. For students of mathematics the author shows that detailed knowledge of the physical background helps to motivate the mathematical subjects and to discover interesting interrelationships between quite different mathematical topics. For students of physics fairly advanced mathematics is presented which goes beyond the usual curriculum in physics.

Time Bertrand Duplantier, 2013-03-14 This eleventh volume in the Poincaré Seminar Series presents an interdisciplinary perspective on the concept of Time which poses some of the most challenging questions in science. Five articles written by the Fields medalist C. Villani the two outstanding theoretical physicists T. Damour and C. Jarzynski the leading experimentalist C. Salomon and the famous philosopher of science H. Price describe recent developments related to the mathematical physical experimental and philosophical facets of this fascinating concept. These articles are also highly pedagogical as befits their origin in lectures to a broad scientific audience. Highlights include a description of the manifold fundamental physical issues in play with time in particular with the changes of perspective implied by Special and General Relativity a mathematically precise discussion of irreversibility and entropy in the context of Boltzmann's and Vlasov's equations a thorough survey of the recently developed thermodynamics at the nanoscale the scale most relevant to biological physics a description of the new cold atom space clock

PHARAO to be installed in 2015 onboard the International Space Station which will allow a test of Einstein's gravitational shift with a record precision of 2×10^{-6} and enable a test of the stability over time of the fundamental constants of physics an issue first raised by Dirac in 1937 and last but not least a logical and clarifying philosophical discussion of Time's arrow a phrase first coined by Eddington in 1928 in a challenge to physics to resolve the puzzle of the time asymmetry of our universe and echoed here in a short poem in prose by C de Mitry This book should be of broad general interest to physicists mathematicians and philosophers

The God Problem Howard K. Bloom, 2012 An exploration of how an inanimate universe generates stunning new forms and unbelievable new powers

Science Between Myth and History José G. Perillán, 2021-06-15 Scientists regularly employ historical narrative as a rhetorical tool in their communication of science yet there's been little reflection on its effects within scientific communities and beyond Science Between Myth and History begins to unravel these threads of influence The stories scientists tell are not just poorly researched scholarly histories they are myth histories a chimeric genre that bridges distinct narrative modes This study goes beyond polarizing questions about who owns the history of science and establishes a common ground from which to better understand the messy and lasting legacy of the stories scientists tell It aims to stimulate vigorous conversation among science practitioners scholars and communicators Scientific myth histories undoubtedly deliver value coherence and inspiration to their communities They are tools used to broker scientific consensus resolve controversies and navigate power dynamics Yet beyond the explicit intent and rationale behind their use these narratives tend to have great rhetorical power and social agency that bear unintended consequences This book unpacks the concept of myth history and explores four case studies in which scientist storytellers use their narratives to teach build consensus and inform the broader public From geopolitically informed quantum interpretation debates to high stakes gene editing patent disputes these case studies illustrate the implications of storytelling in science Science Between Myth and History calls on scientists not to eschew writing about their history but to take more account of the stories they tell and the image of science they project In this time of eroding common ground when many find themselves dependent on yet distrustful of scientific research this book interrogates the effects of mismatched dissonant portraits of science

Special Relativity in General Frames Éric Gourgoulhon, 2013-08-20 Special relativity is the basis of many fields in modern physics particle physics quantum field theory high energy astrophysics etc This theory is presented here by adopting a four dimensional point of view from the start An outstanding feature of the book is that it doesn't restrict itself to inertial frames but considers accelerated and rotating observers It is thus possible to treat physical effects such as the Thomas precession or the Sagnac effect in a simple yet precise manner In the final chapters more advanced topics like tensorial fields in spacetime exterior calculus and relativistic hydrodynamics are addressed In the last brief chapter the author gives a preview of gravity and shows where it becomes incompatible with Minkowski spacetime Well illustrated and enriched by many historical notes this book also presents many applications of special relativity ranging from particle physics

accelerators particle collisions quark gluon plasma to astrophysics relativistic jets active galactic nuclei and including practical applications Sagnac gyrometers synchrotron radiation GPS In addition the book provides some mathematical developments such as the detailed analysis of the Lorentz group and its Lie algebra The book is suitable for students in the third year of a physics degree or on a masters course as well as researchers and any reader interested in relativity Thanks to the geometric approach adopted this book should also be beneficial for the study of general relativity A modern presentation of special relativity must put forward its essential structures before illustrating them using concrete applications to specific dynamical problems Such is the challenge so successfully met of the beautiful book by ric Gourgoulhon excerpt from the Foreword by Thibault Damour

CRITIQUE OF IMPURE REASON Steven James Bartlett, 2021-09-01 The Critique of Impure Reason Horizons of Possibility and Meaning comprises a major and important contribution to philosophy It inaugurates a revolutionary paradigm shift in philosophical thought by providing compelling and long sought for solutions to a wide range of philosophical problems In the process the massive work fundamentally transforms the way in which the concepts of reference meaning and possibility are understood The book includes a Foreword by the celebrated German philosopher and physicist Carl Friedrich von Weizsäcker In Kant's Critique of Pure Reason we find an analysis of the preconditions of experience and of knowledge In contrast but yet in parallel the new Critique focuses upon the ways unfortunately very widespread and often unselfconsciously habitual in which many of the concepts that we employ conflict with the very preconditions of meaning and of knowledge This is a book about the boundaries of frameworks and about the unrecognized conceptual confusions in which we become entangled when we attempt to transgress beyond the limits of the possible and meaningful We tend either not to recognize or not to accept that we all too often attempt to trespass beyond the boundaries of the frameworks that make knowledge possible and the world meaningful The Critique of Impure Reason proposes a bold ground breaking and startling thesis that a great many of the major philosophical problems of the past can be solved through the recognition of a viciously deceptive form of thinking to which philosophers as well as non philosophers commonly fall victim For the first time the book advances and justifies the criticism that a substantial number of the questions that have occupied philosophers fall into the category of impure reason violating the very conditions of their possible meaningfulness The purpose of the study is twofold first to enable us to recognize the boundaries of what is referentially forbidden the limits beyond which reference becomes meaningless and second to avoid falling victims to a certain broad class of conceptual confusions that lie at the heart of many major philosophical problems As a consequence the boundaries of possible meaning are determined Bartlett the author or editor of more than 20 books is responsible for identifying this widespread and delusion inducing variety of error metalogical projection It is a previously unrecognized and insidious form of erroneous thinking that undermines its own possibility of meaning It comes about as a result of the pervasive human compulsion to seek to transcend the limits of possible reference and meaning Based on original research and rigorous analysis combined with

extensive scholarship the Critique of Impure Reason develops a self validating method that makes it possible to recognize correct and eliminate this major and pervasive form of fallacious thinking In so doing the book provides at last provable and constructive solutions to a wide range of major philosophical problems CONTENTS AT A GLANCE Preface Foreword by Carl Friedrich von Weizsäcker Acknowledgments Avant propos A philosopher's rallying call Introduction A note to the reader A note on conventions PART I WHY PHILOSOPHY HAS MADE NO PROGRESS AND HOW IT CAN 1 Philosophical psychological prelude 2 Putting belief in its place Its psychology and a needed polemic 3 Turning away from the linguistic turn From theory of reference to metalogic of reference 4 The stepladder to maximum theoretical generality PART II THE METALOGIC OF REFERENCE A New Approach to Deductive Transcendental Philosophy 5 Reference identity and identification 6 Self referential argument and the metalogic of reference 7 Possibility theory 8 Presupposition logic reference and identification 9 Transcendental argumentation and the metalogic of reference 10 Framework relativity 11 The metalogic of meaning 12 The problem of putative meaning and the logic of meaninglessness 13 Projection 14 Horizons 15 De projection 16 Self validation 17 Rationality Rules of admissibility PART III PHILOSOPHICAL APPLICATIONS OF THE METALOGIC OF REFERENCE Major Problems and Questions of Philosophy and the Philosophy of Science 18 Ontology and the metalogic of reference 19 Discovery or invention in general problem solving mathematics and physics 20 The conceptually unreachable The far side 21 The projections of the external world things in themselves other minds realism and idealism 22 The projections of time space and space time 23 The projections of causality determinism and free will 24 Projections of the self and of solipsism 25 Non relational agentless reference and referential fields 26 Relativity physics as seen through the lens of the metalogic of reference 27 Quantum theory as seen through the lens of the metalogic of reference 28 Epistemological lessons learned from and applicable to relativity physics and quantum theory PART IV HORIZONS 29 Beyond belief 30 Critique of Impure Reason Its results in retrospect SUPPLEMENT The Formal Structure of the Metalogic of Reference APPENDIX I The Concept of Horizon in the Work of Other Philosophers APPENDIX II Epistemological Intelligence References Index About the author

Gravitation and Experiment Thibault Damour, 2007-08-16 This book offers a detailed pedagogical introduction to general relativity It includes a review of what may lie beyond and collects up to date essays on the experimental tests of this theory including the precise timing of the double pulsar J0737 3039 Coverage also details the recent results of the Gravity Probe B mission **General Relativity and Gravitation** Abhay Ashtekar, Beverly K. Berger, James Isenberg, Malcolm MacCallum, 2015-06-01 Explore spectacular advances in cosmology relativistic astrophysics gravitational wave science mathematics computational science and the interface of gravitation and quantum physics with this unique celebration of the centennial of Einstein's discovery of general relativity Twelve comprehensive and in depth reviews written by a team of world leading international experts together present an up to date overview of key topics at the frontiers of these areas with particular emphasis on the significant developments of the last three decades Interconnections with other fields of research

are also highlighted making this an invaluable resource for both new and experienced researchers Commissioned by the International Society on General Relativity and Gravitation and including accessible introductions to cutting edge topics ample references to original research papers and informative colour figures this is a definitive reference for researchers and graduate students in cosmology relativity and gravitational science

Theory and Experiment in Gravitational Physics Clifford M. Will, 2018-09-27 The 2015 centenary of the publication of Einstein's general theory of relativity and the first detection of gravitational waves have focused renewed attention on the question of whether Einstein was right This review of experimental gravity provides a detailed survey of the intensive testing of Einstein's theory of gravity including tests in the emerging strong field dynamical regime It discusses the theoretical frameworks needed to analyze gravitational theories and interpret experiments Completely revised and updated this new edition features coverage of new alternative theories of gravity a unified treatment of gravitational radiation and the implications of the latest binary pulsar observations It spans the earliest tests involving the Solar System to the latest tests using gravitational waves detected from merging black holes and neutron stars It is a comprehensive reference for researchers and graduate students working in general relativity cosmology particle physics and astrophysics

Biological Physics Bertrand Duplantier, Vincent Rivasseau, 2010-10-04 The book contains articles from leading experts in different areas of biological physics Topics ranging from cell dynamics to the evolution of multicellularity to conscious versus non conscious evidence accumulation are reviewed and discussed both from a theoretical and an experimental perspective Furthermore current developments of practical applications like magnetic tweezers for the study of DNA replication and brain imaging are presented

New Philosophical Perspectives on Scientific Progress Yafeng Shan, 2022-11-01 This collection of original essays offers a comprehensive examination of scientific progress which has been a central topic in recent debates in philosophy of science Traditionally debates over scientific progress have focused on different methodological approaches notably the epistemic and semantic approaches The chapters in Part I of the book examine these two traditional approaches as well as the newly revived functional and newly developed noetic approaches Part II features in depth case studies of scientific progress from the history of science The chapters cover individual sciences including physics chemistry evolutionary biology seismology psychology sociology economics and medicine Finally Part III of the book explores important issues from contemporary philosophy of science These chapters address the implications of scientific progress for the scientific realism anti realism debate incommensurability values in science idealisation scientific speculation interdisciplinarity and scientific perspectivalism *New Philosophical Perspectives on Scientific Progress* will be of interest to researchers and advanced students working on the history and philosophy of science

Mathematical Statistical Physics, 2006-06-27 The proceedings of the 2005 les Houches summer school on Mathematical Statistical Physics give a broad and clear overview on this fast developing area of interest to both physicists and mathematicians Introduction to a field of math with many interdisciplinary connections in physics biology and computer

science Roadmap to the next decade of mathematical statistical mechanics Volume for reference years to come Gravity
Eric Poisson, Clifford M. Will, 2014-05-29 This textbook explores approximate solutions to general relativity and their consequences It offers a unique presentation of Einstein's theory by developing powerful methods that can be applied to astrophysical systems Beginning with a uniquely thorough treatment of Newtonian gravity the book develops post Newtonian and post Minkowskian approximation methods to obtain weak field solutions to the Einstein field equations The book explores the motion of self gravitating bodies the physics of gravitational waves and the impact of radiative losses on gravitating systems It concludes with a brief overview of alternative theories of gravity Ideal for graduate courses on general relativity and relativistic astrophysics the book examines real life applications such as planetary motion around the Sun the timing of binary pulsars and gravitational waves emitted by binary black holes Text boxes explore related topics and provide historical context and over 100 exercises present challenging tests of the material covered in the main text *Modern Aspects Of Relativity* Eckehard W Mielke, 2022-02-24 Today Relativity is becoming an integrated aspect of engineering fields Its application to the Global Positioning System GPS extends in usage from smart watches to the navigation of cars airplanes drones and even autonomous tractors In rather expensive particle accelerators physicists are everyday playing with Relativistic Billiards common to the betatrons of cancer therapy using electrons Computer programs such as ray tracing methods are enhanced to simulate objects in relativistic motion which now offer us relativistic visualizations of accretion disks around compact astrophysical objects like Black Holes Against the backdrop of the applications explained throughout the chapters this book takes on a practical and intuitive approach in introducing the Lorentz invariance of light propagation and space time concepts The book begins with simple mathematics like the classical Pythagoras formula for energy momentum triangles Later readers will find the intuitive vector calculus reemerging in the expansion of full relativistic expressions Prepared with instructive diagrams of recent experiments even the layperson can grasp the essential study of Relativity and marvel at its applications within this book *Information Theory* Bertrand Duplantier, Vincent Rivasseau, 2021-07-19 This eighteenth volume in the Poincar Seminar Series provides a thorough description of Information Theory and some of its most active areas in particular its relation to thermodynamics at the nanoscale and the Maxwell Demon and the emergence of quantum computation and of its counterpart quantum verification It also includes two introductory tutorials one on the fundamental relation between thermodynamics and information theory and a primer on Shannon's entropy and information theory The book offers a unique and manifold perspective on recent mathematical and physical developments in this field **The Oxford Handbook of the History of Modern Cosmology** Helge Kragh, Malcolm Longair, 2019-03-06 Scientific and popular literature on modern cosmology is very extensive however scholarly works on the historical development of cosmology are few and scattered The Oxford Handbook of the History of Modern Cosmology offers a comprehensive and authoritative account of the history of cosmology from the late nineteenth

century to the early twenty first century It provides historical background to what we know about the universe today including not only the successes but also the many false starts Big Bang theory features prominently but so does the defunct steady state theory The book starts with a chapter on the pre Einstein period 1860 1910 and ends with chapters on modern developments such as inflation dark energy and multiverse hypotheses The chapters are organized chronologically with some focusing on theory and others more on observations and technological advances A few of the chapters discuss more general ideas relating to larger contexts such as politics economy philosophy and world views

Recent Progress on Gravity

Tests Cosimo Bambi,Alejandro Cárdenas-Avendaño,2024-07-09 Einstein s theory of general relativity is one of the pillars of modern physics and it is our standard framework for describing gravitational fields and the spacetime structure So far general relativity has passed all experimental tests and agrees with observations However the past few years have seen remarkable observational improvements and new techniques that continually challenge the theory s predictions routinely detect the gravitational wave signals from the coalescence of black holes and neutron stars can image the supermassive black holes at the center of our Galaxy and of the galaxy M87 can analyze the properties of the X ray radiation emitted from the very inner part of the accretion disks of several black holes and keep improving laboratory and Solar System experiments This book offers an updated self consistent overview future perspectives and challenges of experimental and observational tests of gravity with both gravitational and electromagnetic spectra It includes the recent results of laboratory tests of gravity solar system experiments tests of gravity in the strong field regime with astrophysical compact objects and tests of gravity on large scales with cosmological observations

The Strange Tools of Human Communication Ruth

Finnegan,2025-05-27 The Strange Tools of Human Communication The Voice the Pen and the Lyre is a thought provoking exploration of the everyday tools of communication that weaves together history art and science to reveal how the voice hand and mind shape our shared experiences Through a blend of scholarly research personal insights and field experiences from the oral tales of Sierra Leone s Limba storytellers to ancient cave art and modern iconography this book offers fresh perspectives on how we connect across time and cultures Challenging the idea that spoken language alone defines humanity it emphasises the crucial role of hands gestures and artistic forms as the foundation of human communication Readers are invited to consider the possibility of an ancestral shared consciousness and the mysterious similarities in ancient art worldwide Through vivid examples and personal insights the book redefines communication as a blend of conscious expression and subconscious influence inviting readers to consider the hidden connections that unite us across cultures and time and to contemplate the future of communication The Strange Tools of Human Communication is an ideal supplement to upper level undergraduate and graduate courses in cultural anthropology sociocultural linguistics and cultural studies

Phases of Matter and their Transitions Gijsbertus de With,2023-10-25 Phases of Matter and their Transitions An all in one comprehensive take on matter and its phase properties In Phases of Matter and their Transitions accomplished materials

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