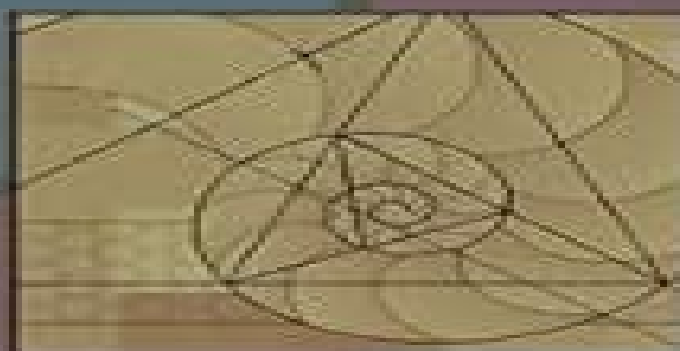


From Quarks to Quasars

Philosophical Problems of Modern Physics

Edited by Robert G. Colodny



From Quarks To Quasars Philosophical Problems Of Modern Physics

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From Quarks To Quasars Philosophical Problems Of Modern Physics:

From Quarks to Quasars Robert Garland Colodny, From Quarks to Quasars Alberto Coffa, 1986 In these essays four philosophers and one physicist consider the interactions of mathematics and physics with logic and philosophy in the era of modern science

From Quarks to Quasars Robert G. Colodny, 2010-11-23 In the history of science only three hundred years separate the discoveries of Galileo and Albert Einstein Recent science has brought us relativity theory quantum mechanics and elementary particle physics in a radical and mercurial departure from earlier developments In this collection of essays four philosophers and one physicist consider the interactions of mathematics and physics with logic and philosophy in the rapidly changing environment of modern science

Philosophical Problems of the Internal and External Worlds John Earman, Allen Janis, Gerald J. Massey, Nicholas Rescher, 2014-02-06 The inaugural volume of the Pittsburgh Konstanz series devoted to the work of philosopher Adolf Gr nbaum encompasses the philosophical problems of space time and cosmology the nature of scientific methodology and the foundations of psychoanalysis

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 part by John Stachel and Shaul Katzir respectively

Physics, Structure, and Reality Jill North, 2021 Jill North offers answers to questions at the heart of the project of interpreting physics How do we figure out the nature of the world from a mathematically formulated theory What do we infer about the world when a physical theory can be mathematically formulated in different ways The notion of structure is crucial to North's answers

Conceptual Change and the Philosophy of Science David J. Stump, 2015-05-15 In this book David Stump traces alternative conceptions of the a priori in the philosophy of science and defends a unique position in the current debates over conceptual change and the constitutive elements in science Stump emphasizes the unique epistemological status of the constitutive elements of scientific theories constitutive elements being the necessary

preconditions that must be assumed in order to conduct a particular scientific inquiry. These constitutive elements such as logic, mathematics, and even some fundamental laws of nature were once taken to be a priori knowledge but can change, thus leading to a dynamic or relative a priori. Stump critically examines developments in thinking about constitutive elements in science as a priori knowledge from Kant's fixed and absolute a priori to Quine's holistic empiricism. By examining the relationship between conceptual change and the epistemological status of constitutive elements in science, Stump puts forward an argument that scientific revolutions can be explained and relativism can be avoided without resorting to universals or absolutes.

The Oxford Handbook of the History of Quantum Interpretations Guido Bacciagaluppi, Olivier Darrigol, Thiago Hartz, Christian Joas, Alexei Kojevnikov, 2022. This Oxford Handbook provides a rigorous interdisciplinary review of the history of interpretations of quantum physics, presenting the key controversies within the field as well as outlining its successes and its extraordinary potential across various scientific fields.

Physics and Necessity Olivier Darrigol, 2014. This book recounts a few ingenious attempts to derive physical theories by reason only, beginning with Descartes' geometric construction of the world and finishing with recent derivations of quantum mechanics from natural axioms.

Quantum Reality, Relativistic Causality, and Closing the Epistemic Circle Wayne C. Myrvold, Joy Christian, 2009-01-29. In July 2006, a major international conference was held at the Perimeter Institute for Theoretical Physics, Canada, to celebrate the career and work of a remarkable man of letters, Abner Shimony. Who is well known for his pioneering contributions to foundations of quantum mechanics, is a physicist as well as a philosopher and is highly respected among the intellectuals of both communities. In line with Shimony's conviction that philosophical investigation is not to be divorced from theoretical and empirical work in the sciences, the conference brought together leading theoretical physicists, experimentalists as well as philosophers. This book collects twenty-three original essays stemming from the conference on topics including history and methodology of science, Bell's theorem, probability theory, the uncertainty principle, stochastic modifications of quantum mechanics, and relativity theory. It ends with a transcript of a fascinating discussion between Lee Smolin and Shimony ranging over the entire spectrum of Shimony's wide-ranging contributions to philosophy, science, and philosophy of science.

Physical Relativity Harvey R. Brown, 2005-11-24. Physical Relativity explores the nature of the distinction at the heart of Einstein's 1905 formulation of his special theory of relativity: that between kinematics and dynamics. Einstein himself became increasingly uncomfortable with this distinction and with the limitations of what he called the principle theory approach, inspired by the logic of thermodynamics. A handful of physicists and philosophers have, over the last century, likewise expressed doubts about Einstein's treatment of the relativistic behaviour of rigid bodies and clocks in motion. In the kinematical part of his great paper, he suggested that the dynamical understanding of length contraction and time dilation intimated by the immediate precursors of Einstein is more fundamental. Harvey Brown both examines and extends these arguments, which support a more constructive approach to relativistic effects in Einstein's terminology.

after giving a careful analysis of key features of the pre history of relativity theory He argues furthermore that the geometrization of the theory by Minkowski in 1908 brought illumination but not a causal explanation of relativistic effects Finally Brown tries to show that the dynamical interpretation of special relativity defended in the book is consistent with the role this theory must play as a limiting case of Einstein's 1915 theory of gravity the general theory of relativity Appearing in the centennial year of Einstein's celebrated paper on special relativity *Physical Relativity* is an unusual critical examination of the way Einstein formulated his theory It also examines in detail certain specific historical and conceptual issues that have long given rise to debate in both special and general relativity theory such as the conventionality of simultaneity the principle of general covariance and the consistency or otherwise of the special theory with quantum mechanics Harvey Brown's new interpretation of relativity theory will interest anyone working on these central topics in modern physics

Building Theories David Danks, Emiliano Ippoliti, 2018-01-18 This book explores new findings on the long neglected topic of theory construction and discovery and challenges the orthodox current division of scientific development into discrete stages the stage of generation of new hypotheses the stage of collection of relevant data the stage of justification of possible theories and the final stage of selection from among equally confirmed theories The chapters written by leading researchers offer an interdisciplinary perspective on various aspects of the processes by which theories rationally should and descriptively are built They address issues such as the role of problem solving and heuristic reasoning in theory building how inferences and models shape the pursuit of scientific knowledge the relation between problem solving and scientific discovery the relative values of the syntactic semantic and pragmatic view of theories in understanding theory construction and the relation between ampliative inferences heuristic reasoning and models as a means for building new theories and knowledge Through detailed arguments and examinations the volume collectively challenges the orthodox view's main tenets by characterizing the ways in which the different stages are logically temporally and psychologically intertwined As a group the chapters provide several attempts to answer long standing questions about the possibility of a unified conceptual framework for building theories and formulating hypotheses

Logicism, Intuitionism, and Formalism Sten Lindström, Erik Palmgren, Krister Segerberg, Viggo Stoltenberg-Hansen, 2008-11-25 This anthology reviews the programmes in the foundations of mathematics from the classical period and assesses their possible relevance for contemporary philosophy of mathematics A special section is concerned with constructive mathematics

Void James Owen Weatherall, 2016-11-22 The New York Times bestselling author of *The Physics of Wall Street* deftly explains all you wanted to know about nothingness aka the quantum vacuum Priyamvada Natarajan author of *Mapping the Heavens* James Owen Weatherall's bestselling book *The Physics of Wall Street* was named one of *Physics Today*'s five most intriguing books of 2013 In this work he takes on a fundamental concept of modern physics nothing The physics of stuff protons neutrons electrons and even quarks and gluons is at least somewhat familiar to most of us But what about the physics of nothing Isaac Newton thought of empty space as

nothingness extended in all directions a kind of theater in which physics could unfold But both quantum theory and relativity tell us that Newton's picture can't be right Nothing it turns out is an awful lot like something with a structure and properties every bit as complex and mysterious as matter In his signature lively prose Weatherall explores the very nature of empty space and solidifies his reputation as a science writer to watch Included on the 2017 Best Book List by the American Association for the Advancement of Science AAAS An engaging and interesting account The Economist Readers get a dose of biography while following such figures as Einstein Dirac and Newton to see how top theories about the void have been discovered developed and debunked Weatherall's clear language and skillful organization adroitly combines history and physics to show readers just how much nothing really matters Publishers Weekly

Liberating Sociology: From Newtonian Toward Quantum Imaginations: Volume 1: Unriddling the Quantum Enigma Mohammad H. Tamdgidi, 2020-01-20

In this major new study in the sociology of scientific knowledge social theorist Mohammad H Tamdgidi reports having unriddled the so called quantum enigma This book opens the lid of the Schrödinger's Cat box of the quantum enigma after decades and finds something both odd and familiar Not only the cat is both alive and dead it has morphed into an elephant in the room in whose interpretation Einstein Bohr Bohm and others were each both right and wrong because the enigma has acquired both localized and spread out features whose unriddling requires both physics and sociology amid both transdisciplinary and transcultural contexts The book offers in a transdisciplinary and transcultural sociology of self knowledge framework a relativistic interpretation to advance a liberating quantum sociology Deeper methodological grounding to further advance the sociological imagination requires investigating whether and how relativistic and quantum scientific revolutions can induce a liberating reinvention of sociology in favor of creative research and a just global society This however necessarily leads us to confront an elephant in the room the quantum enigma In Unriddling the Quantum Enigma the first volume of the series commonly titled Liberating Sociology From Newtonian toward Quantum Imaginations sociologist Mohammad H Tamdgidi argues that unriddling the quantum enigma depends on whether and how we succeed in dehabituating ourselves in favor of unified relativistic and quantum visions from the historically and ideologically inherited classical Newtonian modes of imagining reality that have subconsciously persisted in the ways we have gone about posing and interpreting or not the enigma itself for more than a century Once this veil is lifted and the enigma unriddled he argues it becomes possible to reinterpret the relativistic and quantum ways of imagining reality including social reality in terms of a unified nonreductive creative dialectic of part and whole that fosters quantum sociological imaginations methods theories and practices favoring liberating and just social outcomes The essays in this volume develop a set of relativistic interpretive solutions to the quantum enigma Following a survey of relevant studies and an introduction to the transdisciplinary and transcultural sociology of self knowledge framing the study overviews of Newtonianism relativity and quantum scientific revolutions the quantum enigma and its main interpretations to date are offered They are followed by a study of the notion of

the wave particle duality of light and the various experiments associated with the quantum enigma in order to arrive at a relativistic interpretation of the enigma one that is shown to be capable of critically cohering other offered interpretations The book concludes with a heuristic presentation of the ontology epistemology and methodology of what Tamdgidi calls the creative dialectics of reality The volume essays involve critical comparative integrative reflections on the relevant works of founding and contemporary scientists and scholars in the field This study is the first in the monograph series Tayyeb Series in East West Research and Translation of Human Architecture Journal of the Sociology of Self Knowledge XIII 2020 published by OKCIR Omar Khayyam Center for Integrative Research in Utopia Mysticism and Science Utopistics OKCIR is dedicated to exploring in a simultaneously world historical and self reflective framework the human search for a just global society It aims to develop new conceptual methodological theoretical historical practical pedagogical inspirational and disseminative structures of knowledge whereby the individual can radically understand and determine how world history and her his selves constitute one another Reviews Mohammad H Tamdgidi s Liberating Sociology From Newtonian Toward Quantum Imaginations Volume 1 Unriddling the Quantum Enigma hits the proverbial nail on the head of an ongoing problem not only in sociology but also much social science namely many practitioners allegiance consciously or otherwise to persisting conceptions of science that get in the way of scientific and other forms of theoretical advancement Newtonianism has achieved the status of an idol and its methodology a fetish the consequence of which is an ongoing failure to think through important problems of uncertainty indeterminacy multivariation multidisciplinary and false dilemmas of individual agency versus structure among many others Tamdgidi has done great service to social thought by bringing to the fore this problem of disciplinary decadence and offering in effect a call for its teleological suspension thinking beyond disciplinarity through drawing upon and communicating with the resources of quantum theory not as a fetish but instead as an opening for other possibilities of social including human understanding The implications are far reaching as they offer as the main title attests liberating sociology from persistent epistemic shackles and thus many disciplines and fields connected to things social This is exciting work A triumph The reader is left with enthusiasm for the second volume and theorists of many kinds with proverbial work to be done Professor Lewis R Gordon Honorary President of the Global Center for Advanced Studies and author of Disciplinary Decadence Living Thought in Trying Times Routledge Paradigm 2006 and Freedom Justice and Decolonization Routledge forthcoming 2020 Social sciences are still using metatheoretical models of science based on 19th century newtonian concepts of time and space Mohammad H Tamdgidi has produced a tour de force in social theory leaving behind the old newtonian worldview that still informs the social sciences towards a 21st century non dualistic non reductionist transcultural transdisciplinary post Einsteinian quantum concept of TimeSpace Tamdgidi goes beyond previous efforts done by titans of social theory such as Immanuel Wallerstein and Kyriakos Kontopoulos This book is a quantum leap in the social sciences at large Tamdgidi decolonizes the social sciences away from its Eurocentric colonial foundations bringing

it closer not only to contemporary natural sciences but also to its convergence with the old Eastern philosophical and mystical worldviews This book is a masterpiece in social theory for a 21st century decolonial social science A must read Professor Ramon Grosfoguel University of California at Berkeley Tamdgidi s Liberating Sociology succeeds in adding physical structures to the breadth of the world changing vision of C Wright Mills the man who mentored me at Columbia Relativity theory and quantum mechanics can help us to understand the human universe no less than the physical universe Just as my Creating Life Before Death challenges bureaucracy s conformist orientation so does Liberating Sociology liberate the infinite possibilities inherent in us Given our isolation in the Coronavirus era we have time to follow Tamdgidi in his journey into the depth of inner space where few men have gone before It is there that we can gain emotional strength just as Churchill Roosevelt and Mandela empowered themselves That personal development was needed to address not only their own personal problems but also the mammoth problems of their societies We must learn to do the same Bernard Phillips Emeritus Sociology Professor Boston University

The Logic in Philosophy of Science Hans Halvorson,2019-07-11 Reconsiders the role of formal logic in the analytic approach to philosophy using cutting edge mathematical techniques to elucidate twentieth century debates

The Implications of Determinism Roy Weatherford,2017-07-14 The problem of determinism arises in all the major areas of philosophy The first part of this book first published in 1991 is a critical and historical exposition of the problem and the most important ideas and arguments which have arisen over the many years of debate The second part considers the various forms of determinism and the implications that they engender

Topics In Mathematical Physics General Relativity And Cosmology In Honor Of Jerzy Plebanski - Proceedings Of 2002 International Conference Bogdan Mielnik,Hugo Garcia-compean,Merced Montesinos,Maciej Przanowski,2006-08-10 One of modern science s most famous and controversial figures Jerzy Plebanski was an outstanding theoretical physicist and an author of many intriguing discoveries in general relativity and quantum theory Known for his exceptional analytic talents explosive character inexhaustible energy and bohemian nights with brandy coffee and enormous amounts of cigarettes he was dedicated to both science and art producing innumerable handwritten articles resembling monk s calligraphy as well as a collection of oil paintings As a collaborator but also an antagonist of Leopold Infeld s a coauthor of Albert Einstein s Plebanski is recognized for designing the heavenly and hyper heavenly equations for introducing new variables to describe the gravitational field for the exact solutions in Einstein s gravity and in quantum theory for his classification of the tensor of matter for some outstanding results in nonlinear electrodynamics and for analyzing general relativity with continuous sources long before Chandrasekhar et al A tribute to Pleba ski s contributions and the variety of his interests this is a unique and wide ranging collection of invited papers covering gravity quantization strings branes supersymmetry ideas on the deformation quantization and lesser known results on the continuous Baker Campbell Hausdorff problem

Einstein from 'B' to 'Z' John Stachel,2001-12-10 John Stachel the author of this collection of 37 published and unpublished articles on Albert

Einstein has written about Einstein and his work for over 40 years Trained as a theoretical physicist specializing in the theory of relativity he was chosen as the founding editor of The Collected papers of Albert Einstein 25 years ago and is currently Director of the Boston University Center for Einstein Studies Based on a detailed study of documentary evidence much of which was newly discovered in the course of his work Stachel debunks many of the old and some new myths about Einstein and offers novel insight into his life and work Throughout the volume a new more human picture of Einstein is offered to replace the plaster saint of popular legend In particular a youthful Einstein emerges from the obscurity that previously shrouded his early years and much new light is shed on the origins of the special and general theories of relativity Also discussed in some detail are Einstein's troubled relationship with his first wife his friendships with other physicists such as Eddington Bose and Pauli and his Jewish identity The essays are grouped thematically into the following areas The Human Side Editing the Einstein Papers Surveys of Einstein's Work Special Relativity General Relativity Quantum Theory Einstein and Other Scientists Book Reviews Because the essays are independent of one another readers will be able to dip into this collection to satisfy varying interests It will be of particular interest to historians of 20th century science working physicists and students as well as to the many members of the general reading public who continue to be fascinated by aspects of Einstein's life and work

An Introduction to the Philosophy of Logic Daniel Cohnitz,Luis Estrada-González,2019-05-16
Philosophy of logic is a fundamental part of philosophical study and one which is increasingly recognized as being immensely important in relation to many issues in metaphysics metametaphysics epistemology philosophy of mathematics and philosophy of language This textbook provides a comprehensive and accessible introduction to topics including the objectivity of logical inference rules and its relevance in discussions of epistemological relativism the revived interest in logical pluralism the question of logic's metaphysical neutrality and the demarcation between logic and mathematics Chapters in the book cover the state of the art in contemporary philosophy of logic and allow students to understand the philosophical relevance of these debates without having to contend with complex technical arguments This will be a major new resource for students working on logic as well as for readers seeking a better understanding of philosophy of logic in its wider context

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