

foundations of physics journal

foundations of physics journal stands as a premier publication dedicated to advancing the theoretical and conceptual understanding of physics. It serves as an essential platform for physicists, researchers, and academics who focus on the fundamental principles underlying physical phenomena. This journal emphasizes rigorous analytical approaches and innovative interpretations that challenge and refine the core theories of physics. By exploring a wide array of topics such as quantum mechanics, relativity, and cosmology, the foundations of physics journal plays a pivotal role in shaping modern scientific thought. This article provides an in-depth exploration of the journal's scope, significance, submission process, and its impact on the scientific community. Readers will gain an understanding of how this journal contributes to the evolution of physics research and supports scholarly communication.

- Overview of the Foundations of Physics Journal
- Scope and Focus Areas
- Publication and Peer-Review Process
- Impact and Influence in the Scientific Community
- Submission Guidelines and Author Requirements
- Access and Availability

Overview of the Foundations of Physics Journal

The foundations of physics journal is a distinguished scientific periodical that specializes in publishing research articles centered on the fundamental aspects of physics. Established several decades ago, it has gained recognition for its commitment to theoretical physics and philosophy of science. The journal prioritizes high-quality papers that delve into the conceptual underpinnings of physical laws and theories. It caters to an international audience, including physicists, mathematicians, and philosophers interested in the rigorous analysis of physical principles. The editorial board comprises leading experts who ensure the publication maintains its academic integrity and scientific excellence.

History and Evolution

The journal began as a response to the growing need for a dedicated forum addressing the fundamental questions in physics that were not sufficiently covered by more experimentally focused publications. Over time, it has evolved to incorporate emerging fields such as quantum information theory and foundations of quantum mechanics. This evolution reflects the journal's adaptability and responsiveness to new scientific challenges and debates.

within the foundations of physics community.

Target Audience

The primary readership includes researchers and scholars specializing in theoretical and mathematical physics, as well as those involved in the philosophical and conceptual analysis of physics. Graduate students and early-career scientists also benefit from the journal's comprehensive articles, which often provide detailed expositions of complex topics.

Scope and Focus Areas

The foundations of physics journal covers a broad spectrum of topics that are crucial to understanding the basic principles governing the physical universe. It stresses the importance of foundational research that questions and refines established theories. The journal's scope encompasses both classical and modern physics, with a strong emphasis on theoretical frameworks and interpretative issues.

Key Topics Covered

- Quantum Mechanics and Quantum Field Theory
- General Relativity and Gravitation
- Statistical Mechanics and Thermodynamics
- Philosophy of Physics and Epistemology
- Cosmology and the Structure of the Universe
- Mathematical Foundations of Physical Theories
- Interpretations of Quantum Theory

Interdisciplinary Approaches

The journal encourages submissions that integrate perspectives from related disciplines such as mathematics, philosophy, and computer science. This interdisciplinary approach enriches the dialogue on foundational issues and fosters innovative methodologies for addressing complex questions in physics.

Publication and Peer-Review Process

Maintaining rigorous standards, the foundations of physics journal employs a thorough peer-review process to ensure the quality and relevance of published articles. This process involves multiple stages that uphold the scientific rigor expected by the physics community.

Manuscript Evaluation

Submitted manuscripts undergo an initial editorial screening to assess their suitability for the journal's scope. Qualified papers are then sent to expert referees who evaluate the technical correctness, originality, and significance of the research. Reviewers provide detailed feedback, which authors must address before acceptance.

Types of Articles Published

- Original Research Papers
- Review Articles
- Short Communications
- Theoretical and Conceptual Analyses
- Critical Discussions and Commentaries

Impact and Influence in the Scientific Community

The foundations of physics journal holds a prestigious position within the scientific literature due to its specialized focus and high academic standards. It significantly influences ongoing research and theoretical developments in physics by disseminating groundbreaking ideas and fostering scholarly debate.

Academic and Research Impact

The journal's articles are frequently cited in scholarly work, reflecting their importance in advancing understanding of physical laws and principles. Its role in shaping theoretical discourse makes it a valuable resource for researchers developing new models or challenging existing paradigms.

Contributions to Scientific Progress

By emphasizing foundational issues, the journal helps clarify conceptual ambiguities and promotes the refinement of physical theories. This contribution supports the broader scientific endeavor by providing a stable conceptual framework upon which experimental and applied physics can build.

Submission Guidelines and Author Requirements

Authors interested in publishing in the foundations of physics journal must adhere to specific guidelines designed to maintain clarity, consistency, and scholarly quality. These requirements ensure that submissions meet the journal's standards and facilitate the peer-review process.

Manuscript Preparation

Manuscripts should be prepared using clear and precise language, with all technical terms properly defined. Authors are expected to include comprehensive mathematical derivations where applicable and to reference relevant prior work extensively. The journal supports the use of LaTeX formatting for technical accuracy and ease of typesetting.

Ethical Considerations

Submissions must comply with ethical standards regarding originality, plagiarism, and data integrity. Authors are required to disclose any conflicts of interest and to ensure that all co-authors have approved the final manuscript. The journal also promotes transparency by encouraging the sharing of data and supplementary materials where feasible.

Access and Availability

The foundations of physics journal is accessible to a global academic audience through institutional subscriptions and individual memberships. It is indexed in major scientific databases, enhancing its visibility and accessibility to researchers worldwide.

Subscription Models

The journal offers various subscription options, including print and online editions. Many universities and research institutions provide access as part of their library services, supporting widespread dissemination of knowledge.

Open Access and Archiving

While primarily a subscription-based publication, the journal provides options for open access publication upon payment of article processing charges. This allows authors to increase the reach of their work. Additionally, archived issues are maintained to preserve the scientific record and facilitate historical research in physics.

Frequently Asked Questions

What is the main focus of the Foundations of Physics journal?

Foundations of Physics primarily focuses on the conceptual and philosophical issues in modern physics, including quantum mechanics, relativity, and the interpretation of physical theories.

Who publishes the Foundations of Physics journal?

Foundations of Physics is published by Springer Science+Business Media.

Is Foundations of Physics a peer-reviewed journal?

Yes, Foundations of Physics is a peer-reviewed journal that ensures the quality and validity of the articles it publishes.

How often is the Foundations of Physics journal published?

The journal is typically published on a monthly basis, providing regular updates on research in foundational physics.

Can researchers submit interdisciplinary work to Foundations of Physics?

Yes, Foundations of Physics encourages submissions that bridge physics with philosophy, mathematics, and other related disciplines.

Where can I access articles from the Foundations of Physics journal?

Articles can be accessed through the Springer website, academic databases like SpringerLink, or institutional subscriptions.

What is the impact factor of the Foundations of Physics journal?

The impact factor varies yearly; for the most recent value, it is recommended to check the official journal page or databases like Journal Citation Reports.

Additional Resources

1. *Quantum Mechanics and Path Integrals*

This book explores the fundamental principles of quantum mechanics through the path integral formulation developed by Richard Feynman. It provides a detailed explanation of quantum phenomena using an approach that contrasts with traditional wavefunction methods. The text is essential for understanding modern quantum theory and its applications in physics.

2. *The Road to Reality: A Complete Guide to the Laws of the Universe*

Written by Roger Penrose, this comprehensive book delves into the mathematical foundations underlying physical laws. It bridges the gap between abstract mathematics and physical reality, covering topics from classical mechanics to quantum field theory. The book is a valuable resource for those interested in the deep structure of the universe.

3. *Spacetime and Geometry: An Introduction to General Relativity*

Authored by Sean Carroll, this textbook provides a clear and accessible introduction to Einstein's theory of general relativity. It covers the mathematical tools needed to understand curved spacetime and gravitational phenomena. The book is widely used in graduate courses and is praised for its pedagogical clarity.

4. *Foundations of Statistical Mechanics: Volume 1*

This book addresses the conceptual and mathematical foundations of statistical mechanics, a key area in the study of thermodynamics and physical systems. It discusses equilibrium and non-equilibrium states, offering rigorous derivations and interpretations. The text is suitable for advanced students and researchers interested in the microscopic basis of macroscopic phenomena.

5. *The Feynman Lectures on Physics, Vol. III: Quantum Mechanics*

A classic volume in the renowned Feynman Lectures series, this book focuses on the principles of quantum mechanics. It combines intuitive explanations with formal theory, making complex concepts accessible to a broad audience. It remains a fundamental resource for physics students and educators alike.

6. *Quantum Field Theory for the Gifted Amateur*

This book introduces the principles of quantum field theory in an approachable manner without sacrificing mathematical rigor. It covers particle physics, gauge theories, and the Standard Model, making it suitable for readers transitioning from quantum mechanics to more advanced topics. The text balances conceptual discussion with detailed calculations.

7. *Measurement and Quantum Mechanics*

Exploring the measurement problem in quantum physics, this book examines the philosophical and theoretical challenges of observation in quantum systems. It surveys

different interpretations and approaches to the collapse of the wavefunction. The text is valuable for readers interested in the foundational questions of quantum theory.

8. *Classical Mechanics: Point Particles and Relativity*

This book offers a thorough treatment of classical mechanics, emphasizing both Newtonian and relativistic frameworks. It covers advanced topics such as Lagrangian and Hamiltonian formalisms, as well as the transition to special relativity. The text is designed for students seeking a deep understanding of classical physics foundations.

9. *Principles of Quantum Mechanics*

A widely respected textbook by R. Shankar, this work provides a comprehensive introduction to quantum mechanics. It features clear explanations, numerous examples, and problem sets that aid in mastering the subject. The book is suitable for both undergraduate and graduate students studying foundational physics.

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foundations of physics journal: *Foundations of Quantum Theory* Klaas Landsman, 2017-05-11

This book studies the foundations of quantum theory through its relationship to classical physics. This idea goes back to the Copenhagen Interpretation (in the original version due to Bohr and Heisenberg), which the author relates to the mathematical formalism of operator algebras originally created by von Neumann. The book therefore includes comprehensive appendices on functional analysis and C^* -algebras, as well as a briefer one on logic, category theory, and topos theory. Matters of foundational as well as mathematical interest that are covered in detail include symmetry (and its spontaneous breaking), the measurement problem, the Kochen-Specker, Free Will, and Bell Theorems, the Kadison-Singer conjecture, quantization, indistinguishable particles, the quantum theory of large systems, and quantum logic, the latter in connection with the topos approach to quantum theory. This book is Open Access under a CC BY licence.

foundations of physics journal: Making Sense of Journals in the Physical Sciences Tony Stankus, 1992 The author lays out the patterns of subject specialization within chemistry and physics in non-technical language, emphasizing the often colourful people and events that influenced the founding of new areas of research and their journals.

foundations of physics journal: Advanced Electromagnetism: Foundations: Theory And Applications Terence William Barrett, Dale M Grimes, 1995-11-16 Advanced Electromagnetism: Foundations, Theory and Applications treats what is conventionally called electromagnetism or Maxwell's theory within the context of gauge theory or Yang-Mills theory. A major theme of this book is that fields are not stand-alone entities but are defined by their boundary conditions. The book has practical relevance to efficient antenna design, the understanding of forces and stresses in high energy pulses, ring laser gyros, high speed computer logic elements, efficient transfer of power, parametric conversion, and many other devices and systems. Conventional electromagnetism is shown to be an underdeveloped, rather than a completely developed, field of endeavor, with major

challenges in development still to be met.

foundations of physics journal: The Foundation of Reality David Glick, George Darby, Anna Marmodoro, 2020-04-29 Are space and time fundamental features of our world or might they emerge from something else? The Foundation of Reality brings together metaphysicians and philosophers of physics working on space, time, and fundamentality to address this timely question. Recent developments in the interpretation of quantum mechanics and the understanding of certain approaches to quantum gravity have led philosophers of physics to propose that space and time might be emergent rather than fundamental. But such discussions are often conducted without engagement with those working on fundamentality and related issues in contemporary metaphysics. This book aims to correct this oversight. The diverse contributions to this volume address topics including the nature of fundamentality, the relation of space and time to quantum entanglement, and space and time in theories of quantum gravity. Only through consideration of a range of different approaches to the topic can we hope to get clear on the status of space and time in our contemporary understanding of physical reality.

foundations of physics journal: Guide to Information Sources in the Physical Sciences David Stern, 2000-06-15 This bibliographic guide offers users a basic overview of the current trends and the best, most important, and most up-to-date paper and electronic information resources in the field of physics. The author has selectively chosen and succinctly annotated a list of hundreds of major tools used by physical scientists and researchers, including bibliographic sources, abstracting and indexing databases, journals, books, online sources, and other subject-specific non-bibliographic tools. Stern also provides information on grants, personal bibliographic database tools, document delivery, copyright and reserves. In addition, he discusses future developments, directions, and trends in the field, and in the concluding chapter he outlines the history and developments of the physics. Designed to help students, new researchers in the field of physics, and working physicists in need of additional information resources outside their normal field of study, this is an invaluable reference, research, and collection

foundations of physics journal: 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.

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foundations of physics journal: Worldviews, Science and Us Diederik Aerts, 2011 Confucianism, Chinese History and Society is a collection of essays authored by world renowned scholars on Chinese studies, including Professor Ho Peng Yoke (Needham Research Institute), Professor Leo Ou-fan Lee (Harvard University), Professor Philip Y S Leung (Chinese University of Hong Kong), Professor Liu Ts'un-Yan (Australian National University), Professor Tu Wei-Ming (Harvard University), Professor Wang Gungwu (National University of Singapore) and Professor Yue Daiyun (Peking University). The volume covers many important themes and topics in Chinese

Studies, including the Confucian perspective on human rights, Nationalism and Confucianism, Confucianism and the development of Science in China, crisis and innovation in contemporary Chinese cultures, plurality of cultures in the context of globalization, and comparative study of the city cultures in modern China. These essays were originally delivered at the Professor Wu Teh Yao Memorial Lectures. Wu Teh Yao (1917–1994) was an educator, political scientist, specialist in Confucianism and original drafter of the United Nation's Universal Declaration of Human Rights.

foundations of physics journal: Quantum Worlds Olimpia Lombardi, Sebastian Fortin, Cristian López, Federico Holik, 2019-04-11 Offers a comprehensive and up-to-date volume on the conceptual and philosophical problems related to the interpretation of quantum mechanics.

foundations of physics journal: Non-locality and Modality Tomasz Placek, Jeremy Butterfield, 2012-12-06 Quantum theory is the most successful of all physical theories: it has a towering mathematical structure, a vast range of accurate predictions, and technological applications. Its interpretation, however, is as unsettled now as in the heroic days of Einstein and Bohr. This book focuses on quantum non-locality, the curious quantum correlations between spatially separated systems. Quantum non-locality was one subject of the debates between Einstein, Bohr and others such as Schrödinger. The topic was revived in the 1960s as a result of Bell's epoch-making theorems; since then it has been a very active research field, both theoretically and experimentally. This book contains twenty new papers by eminent researchers, who report recent developments in both the physics of the subject and its philosophy. The physics topics covered include quantum information, the unsharp (positive-operator) approach to observables, the state-space approach, and the pilot-wave theory. The philosophy papers include precise studies of Bohr's reply to the original Einstein-Podolsky-Rosen non-locality paradox, and of non-locality's relation to causation, probability and modality.

foundations of physics journal: Current Research in Operational Quantum Logic Bob Coecke, David Moore, Alexander Wilce, 2013-06-29 The present volume has its origins in a pair of informal workshops held at the Free University of Brussels, in June of 1998 and May of 1999, named Current Research 1 in Operational Quantum Logic. These brought together mathematicians and physicists working in operational quantum logic and related areas, as well as a number of interested philosophers of science, for a rare opportunity to discuss recent developments in this field. After some discussion, it was decided that, rather than producing a volume of conference proceedings, we would try to organize the conferees to produce a set of comprehensive survey papers, which would not only report on recent developments in quantum logic, but also provide a tutorial overview of the subject suitable for an interested non-specialist audience. The resulting volume provides an overview of the concepts and methods used in current research in quantum logic, viewed both as a branch of mathematical physics and as an area of pure mathematics. The first half of the book is concerned with the algebraic side of the subject, and in particular the theory of orthomodular lattices and posets, effect algebras, etc. In the second half of the book, special attention is given to categorical methods and to connections with theoretical computer science. At the 1999 workshop, we were fortunate to hear three excellent lectures by David J. Foulis, represented here by two contributions. Dave's work, spanning 40 years, has helped to define, and continues to reshape, the field of quantum logic.

foundations of physics journal: Handbook of Quantum Logic and Quantum Structures Kurt Engesser, Dov M. Gabbay, Daniel Lehmann, 2011-08-11 Since its inception in the famous 1936 paper by Birkhoff and von Neumann entitled The logic of quantum mechanics quantum logic, i.e. the logical investigation of quantum mechanics, has undergone an enormous development. Various schools of thought and approaches have emerged and there are a variety of technical results. Quantum logic is a heterogeneous field of research ranging from investigations which may be termed logical in the traditional sense to studies focusing on structures which are on the border between algebra and logic. For the latter structures the term quantum structures is appropriate. The chapters of this Handbook, which are authored by the most eminent scholars in the field, constitute a comprehensive presentation of the main schools, approaches and results in the field of quantum

logic and quantum structures. Much of the material presented is of recent origin representing the frontier of the subject. The present volume focuses on quantum structures. Among the structures studied extensively in this volume are, just to name a few, Hilbert lattices, D-posets, effect algebras MV algebras, partially ordered Abelian groups and those structures underlying quantum probability.- Written by eminent scholars in the field of logic- A comprehensive presentation of the theory, approaches and results in the field of quantum logic- Volume focuses on quantum structures

foundations of physics journal: Logic and Algebraic Structures in Quantum Computing

Jennifer Chubb, Ali Eskandarian, Valentina Harizanov, 2016-02-26 Arising from a special session held at the 2010 North American Annual Meeting of the Association for Symbolic Logic, this volume is an international cross-disciplinary collaboration with contributions from leading experts exploring connections across their respective fields. Themes range from philosophical examination of the foundations of physics and quantum logic, to exploitations of the methods and structures of operator theory, category theory, and knot theory in an effort to gain insight into the fundamental questions in quantum theory and logic. The book will appeal to researchers and students working in related fields, including logicians, mathematicians, computer scientists, and physicists. A brief introduction provides essential background on quantum mechanics and category theory, which, together with a thematic selection of articles, may also serve as the basic material for a graduate course or seminar.

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foundations of physics journal: Quantum Mechanics Between Ontology and

Epistemology Florian J. Boge, 2018-10-24 This book explores the prospects of rivaling ontological and epistemic interpretations of quantum mechanics (QM). It concludes with a suggestion for how to interpret QM from an epistemological point of view and with a Kantian touch. It thus refines, extends, and combines existing approaches in a similar direction. The author first looks at current, hotly debated ontological interpretations. These include hidden variables-approaches, Bohmian mechanics, collapse interpretations, and the many worlds interpretation. He demonstrates why none of these ontological interpretations can claim to be the clear winner amongst its rivals. Next, coverage explores the possibility of interpreting QM in terms of knowledge but without the assumption of hidden variables. It examines QBism as well as Healey's pragmatist view. The author finds both interpretations or programs appealing, but still wanting in certain respects. As a result, he then goes on to advance a genuine proposal as to how to interpret QM from the perspective of an internal realism in the sense of Putnam and Kant. The book also includes two philosophical interludes. One details the notions of probability and realism. The other highlights the connections between the notions of locality, causality, and reality in the context of violations of Bell-type inequalities.

foundations of physics journal: 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 "Tayyebbeh 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 (Utopystics). 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, multidisciplinarity, 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

foundations of physics journal: Quantum Measurement Richard H. Hellman,

foundations of physics journal: Contemporary Research in the Foundations and Philosophy of Quantum Theory C.A. Hooker, 2012-12-06 To mathematicians, mathematics is a happy game, to scientists a mere tool and to philosophers a Platonic mystery - or so the caricature runs. The caricature reflects the alleged 'cultural gap' between the disciplines a gap for which there too often has been, sadly, sound historical evidence. In many minds the lack of communication between philosophy and the exact disciplines is especially prominent. Yet in the past there was no separation - exact knowledge, covering both scientists and mathematicians, was known as natural philosophy and the business of providing a critical view of the nature of reality and an accurate mathematical description of it constituted a single task from the glorious tradition begun by the early Greek philosophers even up until Newton's day (but I am thinking of Descartes and Leibniz I). The lack of communication between these professional groups has been particularly unfortunate, for the past half century has seen the most exciting developments in mathematical physics since Newton. These developments hinged on the introduction of vast new reaches of mathematics into physics (non-Euclidean geometries, covariant formulations, non commutative algebras, functional analysis and so on) and conversely have challenged mathematicians to develop the appropriate mathematical fields. Equally, these developments have posed profound philosophical problems to do with the rejection of traditional conceptions concerning the nature of physical reality and physical theorising.

foundations of physics journal: Worldviews, Science And Us: Bridging Knowledge And Its Implications For Our Perspectives Of The World - Proceedings Of The Workshop On Times Of Entanglement Diederik Aerts, Jan Broekaert, Bart D'hooghe, Nicole Note, 2011-12-23 The present volume is part of the 'Worldviews, Science and Us' series of proceedings. It contains selected contributions on the subject of bridging knowledge and its implications for our perspectives of the world. This volume also represents the proceedings of the interdisciplinary stream of the international workshop (Part 1) Times of Entanglement, 21-22 September 2010 at the Minsheng Art Museum in Shanghai, People's Republic of China in the context of the Shanghai World Expo 2010 and, related cutting-edge investigations in the quantum paradigm from discussion panels organized by the Leo Apostel Center for Interdisciplinary studies within the framework of the 'Research on the Construction of Integrating Worldviews' research community set up by the Flanders Fund for Scientific Research. Further information about this research community and a full list of the associated international research centers can be found at www.vub.ac.be/CLEA/res/worldviews/.

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