

Testing Quantum Mechanics On New Ground

Partha Ghose, Sudip Patra

Testing Quantum Mechanics On New Ground:

Testing Quantum Mechanics on New Ground Partha Ghose,1999-04-29 Simple accounts of experiments which test the counterintuitive and bizarre consequences of quantum theory **Einstein's Struggles with Quantum Theory** Dipankar Home, Andrew Whitaker, 2007-11-13 This book presents an account of all aspects of Einstein's achievements in quantum theory his own views and the progress his work has stimulated since his death While some chapters use mathematics at an undergraduate physics level a path is provided for the reader more concerned with ideas than equations and the book will benefit to anybody interested in Einstein and his approach to the quantum **Testing Quantum Theory** with Higher-Order Interference in Many-Particle Correlations Marc-Oliver Pleinert, 2022-05-18 The structure of quantum theory permits interference of indistinguishable paths At the same time however it also limits such interference to certain orders and any higher order interference is prohibited This thesis develops and studies concepts to test quantum theory with higher order interference using many particle correlations the latter being generally richer and typically more subtle than single particle correlations It is demonstrated that quantum theory in general allows for interference up to order 2M in M particle correlations Depending on the mutual coherence of the particles however the related interference hierarchy can terminate earlier In this thesis we show that mutually coherent particles can exhibit interference of the highest orders allowed We further demonstrate that interference of mutually incoherent particles truncates already at order M 1 although interference of the latter is principally more multifaceted than their coherent counterpart We introduce two families of many particle Sorkin parameters whose members are expected to be all zero when quantum mechanics holds As proof of concept we demonstrate the disparate vanishing of such higher order interference terms as a function of coherence in experiments with mutually coherent and incoherent sources Finally we investigate the influence of exotic kinked or looped quantum paths which are permitted by Feynman's path integral approach in such setups **Modified Maxwell Equations in Quantum Electrodynamics** Henning F. Harmuth, Terence William Barrett, Beate Meffert, 2001 Divergencies in quantum field theory referred to as OC infinite zero point energyOCO have been a problem for 70 years Renormalization has always been considered an unsatisfactory remedy In 1985 it was found that Maxwell's equations generally do not have solutions that satisfy the causality law An additional term for magnetic dipole currents corrected this shortcoming Rotating magnetic dipoles produce magnetic dipole currents just as rotating electric dipoles in a material like barium titanate produce electric dipole currents Electric dipole currents were always part of Maxwell's equations This book shows that the correction of Maxwell's equations eliminates the infinite zero point energy in quantum electrodynamics. In addition it presents many more new results Contents Monopole Dipole and Multipole Currents Hamiltonian Formalism Quantization of the Pure Radiation Field KleinOCoGordon Equation and Vacuum Constants Readership Senior undergraduates graduate students researchers and academics in quantum atomic theoretical mathematical and nuclear physics **Ouantum Processes Wolfram**

Schommers, 2011 In this monograph the author discusses the so called projection theory. In contrast to the container conception reality is embedded in space and time within projection theory the physical reality is projected onto space and time and quantum processes are of particular relevance Like Whitehead and Bergson the author argues for the primacy of Quantum Causality Peter J. Riggs, 2009-06-05 There is no sharp dividing line between the foundations of physics and philosophy of physics This is especially true for quantum mechanics. The debate on the interpretation of quantum mechanics has raged in both the scientific and philosophical communities since the 1920s and continues to this day We shall understand the unqualified term quantum mechanics to mean the mathematical formalism i e laws and rules by which empirical predictions and theoretical advances are made There is a popular rendering of quantum mechanics which has been publicly endorsed by some well known physicists which says that quantum mechanics is not only 1 more weird than we imagine but is weirder than we can imagine Although it is readily granted that quantum mechanics has produced some strange and counter intuitive results the case will be presented in this book that quantum mechanics is not as weird as we might have been led to believe The prevailing theory of quantum mechanics is called Orthodox Quantum Theory also known as the Copenhagen Interpretation Orthodox Quantum Theory endows a special status on measurement processes by requiring an intervention of an observer or an observer s proxy e g a measuring apparatus. The placement of the observer or proxy is somewhat arbitrary which introduces a degree of subjectivity Orthodox Quantum Theory only predicts probabilities for measured values of physical quantities It is essentially an instrumental theory i e Advances in Imaging and **Electron Physics** Henning Harmuth, Beate Meffert, 2009-06-12 In this volume the authors extend the calculus of finite differences to Dirac s equation They obtain solutions for particles with negative mass that are completely equivalent to the solutions with positive mass In addition they obtain solutions for nuclear distances of the order of 10 13m and less rather than for the usual atomic distances They report a number of other deviations from the differential theory for instance they found a slight deviation in the eigenvalues of an electron in a Coulomb field similar to the Lamb shift In two sections some surprising results are shown for the concept of space caused by the replacement of dx by delta x **An Interdisciplinary** Approach to Cognitive Modelling Partha Ghose, Sudip Patra, 2023-12-05 An Interdisciplinary Approach to Cognitive Modelling presents a new approach to cognition that challenges long held views It systematically develops a broad based framework to model cognition which is mathematically equivalent to the emerging quantum like modelling of the human mind The book argues that a satisfactory physical and philosophical basis of such an approach is missing a particular issue being the application of quantization to the mind for which there is no empirical evidence as yet In response to this issue the book adopts a COM classical optical modelling approach broad based but mathematically equivalent to quantum like modelling while avoiding its problematic features It presents a philosophically informed and empirically motivated mathematical model of cognition mainly concerning decision making processes It also deals with applications to different

areas of the social sciences It will be of interest to scholars and research students interested in the mathematical modelling of cognition and decision making and also interdisciplinary researchers interested in broader issues of cognition

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 Schr dinger 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 Tayyebeh 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 **Expansion of Physics through Nanoscience** Wolfram Schommers,2020-09-21 In contrast to other publications this work discusses Nanoscience strictly at the ultimate level where the properties of atomic matter emerge The renowned author presents an interdisciplinary approach leading to the forefront of research of quantum theoretical aspects of time selforganizing nanoprocesses brain functions the matter mind problem behaviour research and philosophical questions

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