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Contextual Approach to Quantum Formalism



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Contextual Approach To Quantum Formalism Fundamental Theories Of Physics

Emmanuel Haven, Andrei Khrennikov



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Contextual Approach to Quantum Formalism Andrei Y. Khrennikov, 2009-05-21 The aim of this book is to show that the probabilistic formalisms of classical statistical mechanics and quantum mechanics can be unified on the basis of a general contextual probabilistic model By taking into account the dependence of classical probabilities on contexts i e complexes of physical conditions one can reproduce all distinct features of quantum probabilities such as the interference of probabilities and the violation of Bell s inequality Moreover by starting with a formula for the interference of probabilities which generalizes the well known classical formula of total probability one can construct the representation of contextual probabilities by complex probability amplitudes or in the abstract formalism by normalized vectors of the complex Hilbert space or its hyperbolic generalization Thus the Hilbert space representation of probabilities can be naturally derived from classical probabilistic assumptions An important chapter of the book critically reviews known no go theorems the impossibility to establish a finer description of micro phenomena than provided by quantum mechanics and in particular the commonly accepted consequences of Bell s theorem including quantum non locality Also possible applications of the contextual probabilistic model and its quantum like representation in complex Hilbert spaces in other fields e g in cognitive science and psychology are discussed

Mathematical Foundations of Quantum Information and Computation and Its Applications to Nano- and Bio-systems Masanori Ohya, I. Volovich, 2011-01-15 This monograph provides a mathematical foundation to the theory of quantum information and computation with applications to various open systems including nano and bio systems It includes introductory material on algorithm functional analysis probability theory information theory quantum mechanics and quantum field theory Apart from standard material on quantum information like quantum algorithm and teleportation the authors discuss findings on the theory of entropy in C dynamical systems space time dependence of quantum entangled states entangling operators adaptive dynamics relativistic quantum information and a new paradigm for quantum computation beyond the usual quantum Turing machine Also some important applications of information theory to genetics and life sciences as well as recent experimental and theoretical discoveries in quantum photosynthesis are described

Quantum Bio-informatics III Luigi Accardi, Wolfgang Freudenberger, Masanori Ohya, 2010 The purpose of this proceedings volume is to look for interdisciplinary bridges in mathematics physics information and life sciences in particular research for new paradigms for information and life sciences on the basis of quantum theory The main areas in this volume are all related to one of the following subjects 1 quantum information 2 bio informatics and 3 the interrelation between 1 and 2

Escape from Shadow Physics Adam Forrest Kay, 2024-06-18 An expert researcher argues for a revolutionary new understanding of quantum mechanics The received wisdom in quantum physics is that at the deepest levels of reality there are no actual causes for atomic events This idea led to the outlandish belief that quantum objects indeed reality itself aren t real unless shaped by human measurement Einstein mocked this idea asking whether his bed

spread out across his room unless he looked at it And yet it remains one of the most influential ideas in science and our culture In *Escape from Shadow Physics* Adam Forrest Kay takes up Einstein's torch reality isn't mysterious or dependent on human measurement but predictable and independent of us At the heart of his argument is groundbreaking research with little drops of oil These droplets behave as particles do in the long overlooked quantum theory of pilot waves crucially they showcase quantum behavior while being described by classical physics And that classical quantum interface points to a true understanding of quantum mechanics and a reasonable universe A bold and essential reset of the field *Escape from Shadow Physics* describes the kind of true scientific revolution that comes along just once or less in a century *Ubiquitous*

Quantum Structure Andrei Y. Khrennikov, 2010-01-23 Quantum like structure is present practically everywhere Quantum like QL models i.e. models based on the mathematical formalism of quantum mechanics and its generalizations can be successfully applied to cognitive science psychology genetics economics finances and game theory This book is not about quantum mechanics as a physical theory The short review of quantum postulates is therefore mainly of historical value quantum mechanics is just the first example of the successful application of non Kolmogorov probabilities the first step towards a contextual probabilistic description of natural biological psychological social economical or financial phenomena A general contextual probabilistic model Vxj model is presented It can be used for describing probabilities in both quantum and classical statistical mechanics as well as in the above mentioned phenomena This model can be represented in a quantum like way namely in complex and more general Hilbert spaces In this way quantum probability is totally demystified Born's representation of quantum probabilities by complex probability amplitudes wave functions is simply a special representation of this type **Quantum Bioinformatics Four**

Luigi Accardi, Wolfgang Freudenberg, Masanori Ohya, 2011 The purpose of this proceedings volume is to return to the starting point of bioinformatics and quantum information fields that are growing rapidly at present and to seriously attempt mutual interaction between the two with a view to enumerating and solving the many fundamental problems they entail For such a purpose we look for interdisciplinary bridges in mathematics physics information and life sciences in particular research for new paradigm for information science and life science on the basis of quantum theory **Quantum Bio-informatics V - Proceedings Of The Quantum Bio-informatics 2011** Luigi

Accardi, Masanori Ohya, Wolfgang Freudenberg, 2013-01-25 This volume is based on the fifth international conference of quantum bioinformatics held at the QBI Center of Tokyo University of Science This volume provides a platform to connect mathematics physics information and life sciences and in particular research for new paradigm for information science and life science on the basis of quantum theory The following topics are discussed *Endophysics, Time, Quantum And The Subjective - Proceedings Of The Zif Interdisciplinary Research Workshop (With Cd-rom)* Metod Saniga, Rosolino

Buccheri, Avshalom C Elitzur, 2005-10-03 *Endophysics Time Quantum and the Subjective* is the first systematic cross and trans disciplinary appraisal of the endophysical paradigm and its possible role in our understanding of Nature Focusing on

three of the most pressing issues of contemporary science the interpretation of quantum theory the nature of time and the problem of consciousness it provides the reader with some forefront research concepts and ideas in these areas such as incessant Big Bang geometrizing of mental space times and a contextual view of quantum mechanics and or a view of the Universe as a self evolving quantum automaton Although primarily aimed at academics this engaging volume can be read by anyone interested in modern physics philosophy psychology and cognitive sciences

Quantum Decision Theory and Complexity Modelling in Economics and Public Policy Anirban Chakraborti, Emmanuel Haven, Sudip Patra, Naresh Singh, 2023-09-21 This book is an outcome of the interdisciplinary conference held at OP Jindal Global University Quantum Decision making and Complexity modeling and their possible applications in social sciences economics finance and public policy The volume builds upon the emerging fields of Econophysics Complexity theory and Quantum like modelling in cognition and social sciences and their plausible applications in economics and public policy There can be deep linkages between the micro meso and macro scales at which these paradigms operate In this data driven age greater amounts of information along with the facility to harvest sort and process said information have permitted an expansion of the capability to study a society s various factors to a degree of detail and inclusiveness that has never before been available to researchers As a result an increasing number of throughlines is being discovered revealing heretofore unknown connections between various disciplines and enhancing the study of such societal tropes as finance language shared behavior and many others As the reader will see with clearer understanding of the interconnectedness of society s assorted parts comes a clearer understanding of the society as a whole We have received critical thoughts from noted experts in social and natural sciences to explore possible interconnections The editors of this book earnestly hope that the critical reviews presented in this volume will stimulate further scholarly interest but also interest among policy practitioners for the purpose of exploring possibilities for creating a new paradigm for comprehending pressing issues of deep uncertainty and emergence in social dynamics

Social Laser Andrei Khrennikov, 2020-11-12 The recent years have been characterized by stormy social protests throughout the world These protests have some commonalities but at the same time their sociopolitical psychological and economic contexts differ essentially An important class of such protests is known as color revolutions The analysis of these events in social and political literature is characterized by huge diversity of opinions We remark that the sociopolitical perturbations under consideration are characterized by the cascade dynamics leading to the exponential amplification of coherent social actions In quantum physics such exponential and coherent amplification is the basic feature of laser s functioning Laser is acronym for light amplification by stimulated emission of radiation In this book we explore the theory of laser to model aforementioned waves of social protests from color revolutions to Brexit and Trump s election We call such social processes Stimulated Amplification of Social Actions SASA but to keep closer to the analogy with physics we merely operate with the term social laser

Probability And Randomness: Quantum Versus Classical Andrei Yu

Khrennikov,2016-03-04 Creating a rigorous mathematical theory of randomness is far from being complete even in the classical case Probability and Randomness Quantum versus Classical rectifies this and introduces mathematical formalisms of classical and quantum probability and randomness with brief discussion of their interrelation and interpretational and foundational issues The book presents the essentials of classical approaches to randomness enlightens their successes and problems and then proceeds to essentials of quantum randomness Its wide ranging and comprehensive scope makes it suitable for researchers in mathematical physics probability and statistics at any level *Emergent Quantum Mechanics* Jan Walleczek, Gerhard Grössing, Paavo Pylkkänen, Basil Hiley, 2019-04-02 Emergent quantum mechanics explores the possibility of an ontology for quantum mechanics The resurgence of interest in deeper level theories for quantum phenomena challenges the standard textbook interpretation The book presents expert views that critically evaluate the significance for 21st century physics of ontological quantum mechanics an approach that David Bohm helped pioneer The possibility of a deterministic quantum theory was first introduced with the original de Broglie Bohm theory which has also been developed as Bohmian mechanics The wide range of perspectives that were contributed to this book on the occasion of David Bohm s centennial celebration provide ample evidence for the physical consistency of ontological quantum mechanics The book addresses deeper level questions such as the following Is reality intrinsically random or fundamentally interconnected Is the universe local or nonlocal Might a radically new conception of reality include a form of quantum causality or quantum ontology What is the role of the experimenter agent As the book demonstrates the advancement of quantum ontology as a scientific concept marks a clear break with classical reality The search for quantum reality entails unconventional causal structures and non classical ontology which can be fully consistent with the known record of quantum observations in the laboratory *Chronic Stress and Its Effect on Brain Structure and Connectivity* Starcevic, Ana, 2019-01-11 Neuroscientists found that chronic stress and cortisol can trigger long term changes in brain structure and connectivity in individuals and emphasize the importance of reducing stressful factors in one s daily life Early exposure to stressful events can make a person more vulnerable to anxiety and other mood disorders later in their lifetime Those who take active steps to reduce their stress through various means such as physical activity or therapy can reduce the negative long term effects on the brain Chronic Stress and Its Effect on Brain Structure and Connectivity is an essential reference source that presents current information on chronic stress management the impact of mass media coverage on the human mind and the effects of post traumatic stress Featuring research on topics such as the neurophysiological basis of moods trauma quantum cognition mental health therapy and neurobiology this book is ideally designed for mental health professionals neuroscientists neurologists psychiatrists researchers and therapists **Applications of Quantum Mechanical Techniques to Areas Outside of Quantum Mechanics. 2nd Edition** Emmanuel Haven, Andrei Khrennikov, 2019-11-14 This book deals with applications of quantum mechanical techniques to areas outside of quantum mechanics so called quantum like modeling

Research in this area has grown over the last 15 years But even already more than 50 years ago the interaction between Physics Nobelist Pauli and the psychologist Carl Jung in the 1950 s on seeking to find analogous uses of the complementarity principle from quantum mechanics in psychology needs noting This book does NOT want to advance that society is quantum mechanical The macroscopic world is manifestly not quantum mechanical But this rules not out that one can use concepts and the mathematical apparatus from quantum physics in a macroscopic environment A mainstay ingredient of quantum mechanics is quantum probability and this tool has been proven to be useful in the mathematical modelling of decision making In the most basic experiment of quantum physics the double slit experiment it is known from the works of A Khrennikov that the law of total probability is violated It is now well documented that several decision making paradoxes in psychology and economics such as the Ellsberg paradox do exhibit this violation of the law of total probability When data is collected with experiments which test non rational decision making behaviour one can observe that such data often exhibits a complex non commutative structure which may be even more complex than if one considers the structure allied to the basic two slit experiment The community exploring quantum like models has tried to address how quantum probability can help in better explaining those paradoxes Research has now been published in very high standing journals on resolving some of the paradoxes with the mathematics of quantum physics The aim of this book is to collect the contributions of world s leading experts in quantum like modeling in decision making psychology cognition economics and finance Quantum Interaction Jerome R. Busemeyer, Francois Dubois, Ariane Lambert-Mogiliansky, Massimo Melucci, 2012-11-28 This book constitutes the refereed proceedings of the 6th International Symposium on Quantum Interaction QI 2012 held in Paris in June 2012 The 21 revised full papers presented were carefully reviewed and selected from 32 submissions The papers cover various topics on quantum interaction *Beyond Quantum* Andrei Khrennikov, 2014-04-10 The present wave of interest in quantum foundations is caused by the tremendous development of quantum information science and its applications to quantum computing and quantum communication It has become clear that some of the difficulties encountered in realizations of quantum information processing have roots at the very fundamental level To s *Proceedings of the Conference Foundations of Probability and Physics-2*, 2002 Fundamental Problems in Quantum Physics M. Ferrero, Alwyn van der Merwe, 2013-06-29 For many physicists quantum theory contains strong conceptual difficulties while for others the apparent conclusions about the reality of our physical world and the ways in which we discover that reality remain philosophically unacceptable This book focuses on recent theoretical and experimental developments in the foundations of quantum physics including topics such as the puzzles and paradoxes which appear when general relativity and quantum mechanics are combined the emergence of classical properties from quantum mechanics stochastic electrodynamics EPR experiments and Bell s Theorem the consistent histories approach and the problem of datum uniqueness in quantum mechanics non local measurements and teleportation of quantum states quantum non demolition measurements in optics and matter wave

properties observed by neutron electron and atomic interferometry Audience This volume is intended for graduate students of physics and those interested in the foundations of quantum theory *Quantum Interaction* Jose Acacio de Barros,Bob Coecke,Emmanuel Pothos,2017-01-23 This book constitutes the thoroughly refereed post conference proceedings of the 10th International Conference on Quantum Interaction QI 2016 held in San Francisco CA USA in July 2016 The 21 papers presented in this book were carefully reviewed and selected from 39 submissions The papers address topics such as Fundamentals Quantum Cognition Language and Applications Contextuality and Foundations of Probability and Quantum Like Measurements *Foundations of Quantum Mechanics, an Empiricist Approach* W.M. de Muynck,2006-04-11 Taking a new perspective provided by a generalization of the mathematical formalism encompassing positive operator valued measures this book views old and new problems of the foundations of quantum mechanics It demonstrates the crucial role of the generalized formalism in fundamental issues and practical applications

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Table of Contents Contextual Approach To Quantum Formalism Fundamental Theories Of Physics

1. Understanding the eBook Contextual Approach To Quantum Formalism Fundamental Theories Of Physics
 - The Rise of Digital Reading Contextual Approach To Quantum Formalism Fundamental Theories Of Physics
 - Advantages of eBooks Over Traditional Books
2. Identifying Contextual Approach To Quantum Formalism Fundamental Theories Of Physics
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Contextual Approach To Quantum Formalism Fundamental Theories Of Physics
 - User-Friendly Interface
4. Exploring eBook Recommendations from Contextual Approach To Quantum Formalism Fundamental Theories Of Physics
 - Personalized Recommendations

- Contextual Approach To Quantum Formalism Fundamental Theories Of Physics User Reviews and Ratings
- Contextual Approach To Quantum Formalism Fundamental Theories Of Physics and Bestseller Lists
- 5. Accessing Contextual Approach To Quantum Formalism Fundamental Theories Of Physics Free and Paid eBooks
 - Contextual Approach To Quantum Formalism Fundamental Theories Of Physics Public Domain eBooks
 - Contextual Approach To Quantum Formalism Fundamental Theories Of Physics eBook Subscription Services
 - Contextual Approach To Quantum Formalism Fundamental Theories Of Physics Budget-Friendly Options
- 6. Navigating Contextual Approach To Quantum Formalism Fundamental Theories Of Physics eBook Formats
 - ePub, PDF, MOBI, and More
 - Contextual Approach To Quantum Formalism Fundamental Theories Of Physics Compatibility with Devices
 - Contextual Approach To Quantum Formalism Fundamental Theories Of Physics Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Contextual Approach To Quantum Formalism Fundamental Theories Of Physics
 - Highlighting and Note-Taking Contextual Approach To Quantum Formalism Fundamental Theories Of Physics
 - Interactive Elements Contextual Approach To Quantum Formalism Fundamental Theories Of Physics
- 8. Staying Engaged with Contextual Approach To Quantum Formalism Fundamental Theories Of Physics
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Contextual Approach To Quantum Formalism Fundamental Theories Of Physics
- 9. Balancing eBooks and Physical Books Contextual Approach To Quantum Formalism Fundamental Theories Of Physics
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Contextual Approach To Quantum Formalism Fundamental Theories Of Physics
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Contextual Approach To Quantum Formalism Fundamental Theories Of Physics
 - Setting Reading Goals Contextual Approach To Quantum Formalism Fundamental Theories Of Physics
 - Carving Out Dedicated Reading Time

12. Sourcing Reliable Information of Contextual Approach To Quantum Formalism Fundamental Theories Of Physics
 - Fact-Checking eBook Content of Contextual Approach To Quantum Formalism Fundamental Theories Of Physics
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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