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QUANTUM- CLASSICAL CORRESPONDENCE

Dynamical Quantization and
the Classical Limit



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Quantum Classical Correspondence Dynamical Quantization And The Classical Limit The Frontiers Collection

Shyam Wuppuluri, Giancarlo Ghirardi



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Quantum-Classical Correspondence A. O. Bolivar, 2004-01-22 At what level of physical existence does quantum behavior begin How does it develop from classical mechanics This book addresses these questions and thereby sheds light on fundamental conceptual problems of quantum mechanics It elucidates the problem of quantum classical correspondence by developing a procedure for quantizing stochastic systems e g Brownian systems described by Fokker Planck equations The logical consistency of the scheme is then verified by taking the classical limit of the equations of motion and corresponding physical quantities Perhaps equally important conceptual problems concerning the relationship between classical and quantum physics are identified and discussed Graduate students and physical scientists will find this an accessible entrance to an intriguing and thorny issue at the core of modern physics

Quantum-Classical Correspondence A. O. Bolivar, 2013-04-09 At what level of physical existence does quantum behavior begin How does it develop from classical mechanics This book addresses these questions and thereby sheds light on fundamental conceptual problems of quantum mechanics Quantum Classical Correspondence elucidates the problem by developing a procedure for quantizing stochastic systems e g Brownian systems described by Fokker Planck equations The logical consistency of the scheme is then verified by taking the classical limit of the equations of motion and corresponding physical quantities Perhaps equally important conceptual problems concerning the relationship between classical and quantum physics are identified and discussed Physical scientists will find this an accessible entrance to an intriguing and thorny issue at the core of modern physics

Space, Time and the Limits of Human Understanding Shyam Wuppuluri, Giancarlo Ghirardi, 2016-12-01 In this compendium of essays some of the world's leading thinkers discuss their conceptions of space and time as viewed through the lens of their own discipline With an epilogue on the limits of human understanding this volume hosts contributions from six or more diverse fields It presumes only rudimentary background knowledge on the part of the reader Time and again through the prism of intellect humans have tried to diffract reality into various distinct yet seamless atomic yet holistic independent yet interrelated disciplines and have attempted to study it contextually Philosophers debate the paradoxes or engage in meditations dialogues and reflections on the content and nature of space and time Physicists too have been trying to mold space and time to fit their notions concerning micro and macro worlds Mathematicians focus on the abstract aspects of space time and measurement While cognitive scientists ponder over the perceptual and experiential facets of our consciousness of space and time computer scientists theoretically and practically try to optimize the space time complexities in storing and retrieving data information The list is never ending Linguists logicians artists evolutionary biologists geographers etc all are trying to weave a web of understanding around the same duo However our endeavour into a world of such endless imagination is restrained by intellectual dilemmas such as Can humans comprehend everything Are there any limits Can finite thought fathom infinity We have sought far and wide among the best minds to furnish articles that provide

an overview of the above topics We hope that through this journey a symphony of patterns and tapestry of intuitions will emerge providing the reader with insights into the questions What is Space What is Time Chapter 15 of this book is available open access under a CC BY 4.0 license

CHIPS 2020 VOL. 2 Bernd Höfflinger, 2015-09-19 The release of this second volume of CHIPS 2020 coincides with the 50th anniversary of Moore's Law a critical year marked by the end of the nanometer roadmap and by a significantly reduced annual rise in chip performance At the same time we are witnessing a data explosion in the Internet which is consuming 40% more electrical power every year leading to fears of a major blackout of the Internet by 2020 The messages of the first CHIPS 2020 published in 2012 concerned the realization of quantum steps for improving the energy efficiency of all chip functions With this second volume we review these messages and amplify upon the most promising directions ultra low voltage electronics nanoscale monolithic 3D integration relevant data brain and human vision inspired processing and energy harvesting for chip autonomy The team of authors enlarged by more world leaders in low power monolithic 3D video and Silicon brains presents new vistas in nanoelectronics promising Moore like exponential growth sustainable through to the 2030s

Questioning the Foundations of Physics Anthony Aguirre, Brendan Foster, Zeeya Merali, 2015-01-24 The essays in this book look at way in which the fundamentals of physics might need to be changed in order to make progress towards a unified theory They are based on the prize winning essays submitted to the FQXi essay competition Which of Our Basic Physical Assumptions Are Wrong which drew over 270 entries As Nobel Laureate physicist Philip W Anderson realized the key to understanding nature's reality is not anything magical but the right attitude the focus on asking the right questions the willingness to try and to discard unconventional answers the sensitive ear for phoniness self deception bombast and conventional but unproven assumptions The authors of the eighteen prize winning essays have where necessary adapted their essays for the present volume so as to a incorporate the community feedback generated in the online discussion of the essays b add new material that has come to light since their completion and c to ensure accessibility to a broad audience of readers with a basic grounding in physics The Foundational Questions Institute FQXi catalyzes supports and disseminates research on questions at the foundations of physics and cosmology particularly new frontiers and innovative ideas integral to a deep understanding of reality but unlikely to be supported by conventional funding sources

Probability in Physics Yemima Ben-Menahem, Meir Hemmo, 2012-01-10 What is the role and meaning of probability in physical theory in particular in two of the most successful theories of our age quantum physics and statistical mechanics Laws once conceived as universal and deterministic such as Newton's laws of motion or the second law of thermodynamics are replaced in these theories by inherently probabilistic laws This collection of essays by some of the world's foremost experts presents an in depth analysis of the meaning of probability in contemporary physics Among the questions addressed are How are probabilities defined Are they objective or subjective What is their explanatory value What are the differences between quantum and classical probabilities The result is an informative and thought provoking book for

the scientifically inquisitive Why More Is Different Brigitte Falkenburg, Margaret Morrison, 2015-02-26 The physics of condensed matter in contrast to quantum physics or cosmology is not traditionally associated with deep philosophical questions However as science largely thanks to more powerful computers becomes capable of analysing and modelling ever more complex many body systems basic questions of philosophical relevance arise Questions about the emergence of structure the nature of cooperative behaviour the implications of the second law the quantum classical transition and many other issues This book is a collection of essays by leading physicists and philosophers Each investigates one or more of these issues making use of examples from modern condensed matter research Physicists and philosophers alike will find surprising and stimulating ideas in these pages *Ancestors, Territoriality, and Gods* Ina Wunn, Davina Grojnowski, 2016-07-27 This books sets out to explain how and why religion came into being Today this question is as fascinating as ever especially since religion has moved to the centre of socio political relationships In contrast to the current but incomplete approaches from disciplines such as cognitive science and psychology the present authors adopt a new approach equally manifest and constructive that explains the origins of religion based strictly on behavioural biology They employ accepted research results that remove all need for speculation Decisive factors for the earliest demonstrations of religion are thus territorial behaviour and ranking coping with existential fears and conflict solution with the help of rituals These in turn in a process of cultural evolution are shown to be the roots of the historical and contemporary religions **The Dual Nature of Life** Gennadiy Zhегunov, 2005-07-25 Life is a diverse and ubiquitous phenomenon on Earth characterized by fundamental features distinguishing living bodies from nonliving material Yet it is also so complex that it has long defied precise definition This book from a seasoned biologist offers new insights into the nature of life by illuminating a fascinating architecture of dualities inherent in its existence and propagation Life is connected with individual living beings yet it is also a collective and inherently global phenomenon of the material world It embodies a dual existence of cycles of phenotypic life and their unseen driver an uninterrupted march of genetic information whose collective immortality is guaranteed by individual mortality Although evolution propagates and tunes species of organisms the beings produced can be regarded merely as tools for the survival and cloning of genomes written in an unchanging code What are the physical versus informational bases and driving forces of life and how do they unite as an integrated system What does time mean for individuals life on the global scale and the underlying information This accessible examination of principles and evidence shows that a network of dualities lies at the heart of biological puzzles that have engaged the human mind for millennia How Can Physics Underlie the Mind? George Ellis, 2016-05-31 Physics underlies all complexity including our own existence how is this possible How can our own lives emerge from interactions of electrons protons and neutrons This book considers the interaction of physical and non physical causation in complex systems such as living beings and in particular in the human brain relating this to the emergence of higher levels of complexity with real causal powers In particular it explores the idea of top down causation

which is the key effect allowing the emergence of true complexity and also enables the causal efficacy of non physical entities including the value of money social conventions and ethical choices

This book delves into Quantum Classical Correspondence Dynamical Quantization And The Classical Limit The Frontiers Collection. Quantum Classical Correspondence Dynamical Quantization And The Classical Limit The Frontiers Collection is a vital topic that must be grasped by everyone, ranging from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Quantum Classical Correspondence Dynamical Quantization And The Classical Limit The Frontiers Collection, encompassing both the fundamentals and more intricate discussions.

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 - Chapter 3: Quantum Classical Correspondence Dynamical Quantization And The Classical Limit The Frontiers Collection in Everyday Life
 - Chapter 4: Quantum Classical Correspondence Dynamical Quantization And The Classical Limit The Frontiers Collection in Specific Contexts
 - Chapter 5: Conclusion
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Classical Limit The Frontiers Collection in specific contexts. The fourth chapter will explore how Quantum Classical Correspondence Dynamical Quantization And The Classical Limit The Frontiers Collection is applied in specialized fields, such as education, business, and technology.

6. In chapter 5, the author will draw a conclusion about Quantum Classical Correspondence Dynamical Quantization And The Classical Limit The Frontiers Collection. The final chapter will summarize the key points that have been discussed throughout the book.

This book is crafted in an easy-to-understand language and is complemented by engaging illustrations. This book is highly recommended for anyone seeking to gain a comprehensive understanding of Quantum Classical Correspondence Dynamical Quantization And The Classical Limit The Frontiers Collection.

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