

# Decoherence and the Appearance of a Classical World in Quantum Theory

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# Decoherence And The Appearance Of A Classical World In Quantum Theory

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Pylkkänen, Basil Hiley**



## **Decoherence And The Appearance Of A Classical World In Quantum Theory:**

Decoherence and the Appearance of a Classical World in Quantum Theory Domenico Giulini, Erich Joos, Claus Kiefer, Joachim Kupsch, I.-O. Stamatescu, H.D. Zeh, 2013-03-14 Decoherence a concept known only to few physicists when the first edition appeared in 1996 has since become firmly established experimentally and understood theoretically as well as widely reported in the literature The major consequences of decoherence are the emergence of classicality in general superselection rules the border line between microscopic and macroscopic behavior in molecules and field theory the emergence of classical spacetime and the appearance of quantum jumps The most important new developments in this rapidly evolving field are included in the second edition of this book which has become a standard reference on the subject All chapters have been thoroughly revised and updated New fields of application now addressed span chaos theory quantum information neuroscience primordial fluctuations in cosmology black holes and string theory experimental tests and interpretational issues While the major part of the book is concerned with environmental decoherence derived from a universal Schrödinger equation later chapters address related or competing methods such as consistent histories open system dynamics algebraic approaches and collapse models

**Decoherence and the Appearance of a Classical World in Quantum Theory** Domenico Giulini, Erich Joos, Claus Kiefer, 1996 This fascinating book explores how a seemingly classical macroscopic world can evolve from a microscopic world based on quantum systems While sometimes contradictory the views expressed here reflect the lively nature of the debate within science about the nature of reality and the implications of quantum theory

Compendium of Quantum Physics Daniel Greenberger, Klaus Hentschel, Friedel Weinert, 2009-07-25 With contributions by leading quantum physicists philosophers and historians this comprehensive A to Z of quantum physics provides a lucid understanding of key concepts of quantum theory and experiment It covers technical and interpretational aspects alike and includes both traditional and new concepts making it an indispensable resource for concise up to date information about the many facets of quantum physics

Quantum Theory Salvatore Cannavo, 2009-02-26 In straightforward and nontechnical language a philosopher of science goes to the very heart of what is still the central subject in modern physics namely quantum theory with its astonishing ability to predict yet not explain There he encounters and unravels the maze of bewildering puzzles that for nearly a century have locked our most eminent theoreticians in a whirlpool of ongoing controversy Salvatore Cannavo breaks radically with this tradition of searching for a generally acceptable interpretation of quantum theory by urging a complete withdrawal from the fray In doing so he first highlights the now established adjunctive role of quantum theory in the elaboration of string theory and other developing branches of explanatory physical theory and then recommends a new focus for the channeling of creative effort in contemporary theoretical physics

Quantum Mechanics and Fundamentality Valia Allori, 2022-07-27 This edited collection provides new perspectives on some metaphysical questions arising in quantum mechanics These questions have been long standing and are of continued interest

to researchers and graduate students working in physics philosophy of physics and metaphysics It features contributions from a diverse set of researchers ranging from senior scholars to junior academics working in varied fields from physics to philosophy of physics and metaphysics The contributors reflect on issues about fundamentality is quantum theory fundamental If so what is its fundamental ontology ontological dependence how do ordinary objects exist even if they are not fundamental realism what kind of realism is compatible with quantum theory indeterminacy can the world itself exhibit ontological indeterminacy The book contains contributions from both physicists including Nobel Prize winner Gerard t Hooft science communicators and philosophers

**Quantum Reality and Theory of Śūnya** Siddheshwar Rameshwar Bhatt,2019-03-30 The book deals with expounding the nature of Reality as it is understood in contemporary times in Quantum Physics It also explains the classical Indian theory of nya in its diverse facets Thereafter it undertakes comparison between the two which is an area of great topical interest It is a cross disciplinary study by erudite Indian and western scholars between traditional Indian knowledge system and contemporary researches in Physical sciences It points out how the theory of nyat has many seminal ideas and theories in common with contemporary Quantum Physics The learned authors have tried to dissolve the mysteries of Quantum Physics and resolved its weird paradoxes with the help of theory of nyat The issue of non separability or entanglement has been approached with the help of the Buddhist theory of Prat tyasamutp da The paradoxical situation of wave particle duality has been explained with the help of Upani adic theory of complementarity of the two opposites The measurement problem represented by Schrodinger s cat has been dealt with by resorting to two forms of the calculation of probabilities Some writers have argued for nyat like non essentialist position to understand quantum reality To make sense of quantum theory some papers provide a happy symbiosis of technical understanding and personal meditative experience by drawing multifarious parallels This book will be of interest to philosophically inclined physicists and philosophers with interest in quantum mechanics

**Decoherence** Maximilian Schlosshauer,2007-07-30 This detailed accessible introduction to the field of quantum decoherence reviews the basics and then explains the essential consequences of the phenomenon for our understanding of the world The discussion includes among other things How the classical world of our experience can emerge from quantum mechanics the implications of decoherence for various interpretations of quantum mechanics recent experiments confirming the puzzling consequences of the quantum superposition principle and making decoherence processes directly observable

**Classical and Quantum Cosmology** Gianluca Calcagni,2017-01-06 This comprehensive textbook is devoted to classical and quantum cosmology with particular emphasis on modern approaches to quantum gravity and string theory and on their observational imprint It covers major challenges in theoretical physics such as the big bang and the cosmological constant problem An extensive review of standard cosmology the cosmic microwave background inflation and dark energy sets the scene for the phenomenological application of all the main quantum gravity and string theory models of cosmology Born of the author s teaching experience and commitment to bridging the gap

between cosmologists and theoreticians working beyond the established laws of particle physics and general relativity this is a unique text where quantum gravity approaches and string theory are treated on an equal footing As well as introducing cosmology to undergraduate and graduate students with its pedagogical presentation and the help of 45 solved exercises this book which includes an ambitious bibliography of about 3500 items will serve as a valuable reference for lecturers and researchers

**Advances in Solid State Physics 46** Rolf Haug, 2007-12-05 This book presents written versions of selected invited lectures from the spring meeting of the Arbeitskreis Festkörperphysik of the Deutsche Physikalische Gesellschaft which was held from 27 to 31 March 2006 in Dresden Germany Many topical talks given at the numerous symposia are included Most of these were organized collaboratively by several of the divisions of the Arbeitskreis The book presents to some extent the status of the field of solid state physics in 2006 not only in Germany but also internationally **John**

**Stewart Bell and Twentieth Century Physics** Andrew Whitaker, 2016 John Stewart Bell 1928 1990 was one of the most important figures in twentieth century physics famous for his work on the fundamental aspects of the century's most important theory quantum mechanics While the debate over quantum theory between the supremely famous physicists Albert Einstein and Niels Bohr appeared to have become sterile in the 1930s Bell was able to revive it and to make crucial advances Bell's Theorem or Bell's Inequalities He was able to demonstrate a contradiction between quantum theory and essential elements of pre quantum theory locality and causality The book gives a non mathematical account of Bell's relatively impoverished upbringing in Belfast and his education It describes his major contributions to quantum theory but also his important work in the physics of accelerators and nuclear and elementary particle physics **Nancy Cartwright's**

**Philosophy of Science** Luc Bovens, Carl Hoefer, Stephan Hartmann, 2008-06-03 The only book that addresses Cartwright's undoubted influence on the study of the philosophy of science This critical assessment contains contributions from Cartwright's champions and critics including leading scholars in the field such as Ronald N Giere and Paul Teller

**Quantum Mechanics at the Crossroads** James Evans, Alan S. Thorndike, 2006-11-02 Quantum mechanics is a beautiful strange and successful theory that originated in the 1920s The theory which Niels Bohr regarded as finished and complete has in the last few decades rapidly developed in unexpected directions An intense new focus on the stranger aspects of the theory including entanglement and nonlocality has resulted in new perceptions of the foundations of quantum mechanics as well as surprising new exploitations of quantum phenomena Historians and philosophers of science have also renewed their attention to quantum mechanics opening up its human dimensions and asking searching questions about its meaning This volume brings together new insights from different vantage points Historians of physics such as J L Heilbron philosophers of science such as Abner Shimony and Michel Bitbol and quantum physicists such as Wolfgang Ketterle and Roland Omnès join forces to tackle essential questions in quantum mechanics and its interpretation All the authors have written for a broad readership and the resulting volume will appeal to everyone wishing to keep abreast of new developments in quantum

mechanics as well as its history and philosophy     Progress in Physics, vol. 4/2008 Dmitri Rabounski ,Florentin Smarandache, Larissa Borissova, Progress in Physics has been created for publications on advanced studies in theoretical and experimental physics including related themes from mathematics     **Quantum Physics: The Bottom-Up Approach** Dirk Dubbers,Hans-Jürgen Stöckmann,2013-01-11 This concise tutorial provides the bachelor student and the practitioner with a short text on quantum physics that allows them to understand a wealth of quantum phenomena based on a compact well readable yet still concise and accurate description of nonrelativistic quantum theory This quadrature of the circle is achieved by concentrating first on the simplest quantum system that still displays all basic features of quantum theory namely a system with only two quantized energy levels For most readers it is very helpful to understand such simple systems before slowly proceeding to more demanding topics like particle entanglement quantum chaos or the use of irreducible tensors This tutorial does not intend to replace the standard textbooks on quantum mechanics but will help the average student to understand them often for the first time     **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     **Quantum Thermodynamics** Jochen Gemmer,Mathias Michel,Günter Mahler,2004-12-14 This extended tutorial essay views thermodynamics as an incomplete description of quantum systems with many degrees of freedom The main goal is to show that the approach to equilibrium with equilibrium characterized by maximum ignorance about the open system of interest neither requires that many particles nor is it a precise way of partitioning relevant for the salient features of equilibrium and equilibration Moreover it is indeed quantum effects that are at work in bringing about universal thermodynamic behaviour of modestly sized open systems Von Neumann s concept of entropy thus proves to be much more widely useful than something to be feared and far beyond truly macroscopic systems in equilibrium     EPSA Philosophy of Science: Amsterdam 2009

Henk W. de Regt,Stephan Hartmann,Samir Okasha,2011-10-15 This is a collection of high quality research papers in the philosophy of science deriving from papers presented at the second meeting of the European Philosophy of Science Association in Amsterdam October 2009      **Re-Thinking Time at the Interface of Physics and Philosophy** Albrecht von Müller,Thomas Filk,2015-05-19 The current volume of the Parmenides Series On Thinking addresses our deepest and most personal experience of the world the experience of the present from a modern perspective combining physics and philosophy Many prominent researchers have contributed articles to the volume in which they present models and express their opinions on and in some cases also their skepticism about the subject and how it may be or may not be addressed as well as which aspects they consider most relevant in this context While Einstein might have once hoped that the present would find its place in the theory of general relativity in a later discussion with Carnap he expressed his disappointment that he was never able to achieve this goal This collection of articles provides a unique overview of different modern approaches representing not only a valuable summary for experts but also a nearly inexhaustible source of profound and novel ideas for those who are simply interested in this question      **Holism in Philosophy of Mind and Philosophy of Physics** Michael Esfeld,2001-06-30 The topic of this book is a comparison between holism in the philosophy and language and social holism on the one hand and holism about space time and quantum systems on the other hand The main claim is that holism in the humanities and holism in fundamental physics come under the same substantial general conception of holism That is to say arguments to the effect that the holism of the mental is unscientific or that the mental is separated from the physical owing to holism are not sound The holism of the mental fits into a world view that bases itself on scientific realism The addressees of this book are all those who care about our view of the world and ourselves in the spirit of an argumentative examination of different positions No familiarity with physics is presupposed      *Measurements in Quantum Mechanics* Mohammad Reza Pahlavani,2012-02-22 Perhaps quantum mechanics is viewed as the most remarkable development in 20th century physics Each successful theory is exclusively concerned about results of measurement Quantum mechanics point of view is completely different from classical physics in measurement because in microscopic world of quantum mechanics a direct measurement as classical form is impossible Therefore over the years of developments of quantum mechanics always challenging part of quantum mechanics lies in measurements This book has been written by an international invited group of authors and it is created to clarify different interpretation about measurement in quantum mechanics

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