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## **Decoherence and the Appearance of a Classical World in ...**

Decoherence and the Appearance of a Classical World in Quantum Theory is a cooperative book by a number of prominent quantum theorists, including H.Dieter Zeh, the author of the original paper proposing the theory of "decoherence." This essay (which I am dying to read) is

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contained in a book edited by Wheeler and Zurek (1983) which has become rare (as a hen's tooth or as a real thing in ...

## **Decoherence and the Appearance of a Classical World in ...**

When we were preparing the first edition of this book, the concept of de coherence was known only to a minority of physicists. In the meantime, a wealth of contributions has appeared in the literature - important ones as well as serious misunderstandings. The phenomenon itself is now experimen tally clearly established and theoretically well understood in principle.

## **Decoherence and the Appearance of a Classical World in ...**

Introduction. This book describes the phenomena that arise from the interaction between quantum systems and their environment. Since the first edition appeared in 1996, the concepts of decoherence have become firmly established experimentally and are now widely used in the literature. Its major consequences are the emergence of "classicality", superselection rules, the border line between microscopic and macroscopic behavior, the emergence of classical spacetime, and the appearance of ...

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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.

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Further along these lines, Zeh (2003b) argues that decoherence can explain the appearance of particle detections within quantum field theory (see the entry on quantum field theory). Therefore, only fields need to be included in the fundamental concepts, and 'particles' are a derived concept, unlike what might be suggested by the customary

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introduction of fields through a process of 'second quantisation'.

## **The Role of Decoherence in Quantum Mechanics (Stanford ...**

Decoherence does not claim to provide a mechanism for the actual wave-function collapse; rather it puts forth a reasonable mechanism for the appearance of wave-function collapse. The quantum nature of the system is simply "leaked" into the environment so that a total superposition of the wave function still exists, but exists - at least for all practical purposes [32] - beyond the realm of ...

## **Quantum decoherence - Wikipedia**

Decoherence and the Appearance of a Classical World in Quantum Theory: Joos, Erich, Zeh, H Dieter, Kiefer, Institute for Theoretical Physics Claus, Giulini, Domenico ...

## **Decoherence and the Appearance of a Classical World in ...**

Quantum Decoherence consists in the appearance of classical dynamics in the evolution of a quantum system. This paper focuses on the probabilistic interpretation of this phenomenon, connected with ...

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Decoherence " is the sixth episode in the third season of the HBO science fiction dystopian thriller television series Westworld. The episode aired on April 19, 2020. It was written by Suzanne Wrubel and Lisa Joy, and directed by Jennifer Getzinger.

## **Decoherence (Westworld) - Wikipedia**

Quantum decoherence gives the appearance of wave function collapse (the reduction of the physical possibilities into a single possibility as seen by an observer) and justifies the framework and intuition of classical physics as an acceptable approximation: decoherence is the mechanism by which the classical limit emerges out of a quantum starting point and it determines the location of the quantum-classical boundary.

## **Quantum decoherence**

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A unique description of the phenomena that arise from the interaction between quantum systems and their environment. Because of the novel character of the approach discussed, the book addresses scientists from all fields of physics and related disciplines as well as students of physics.

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

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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.

In this book the process of decoherence is reviewed from both the theoretical and the experimental physicist's point of view. Implications of this important concept for fundamental problems of quantum theory and for chemistry and biology are also given. This broad review of decoherence addresses researchers and graduate students. It could also be used in seminar work.

This book arose from a series of lectures which I gave at the University of Heidelberg during the summer terms of 1979, 1982 and 1986. They led in 1984 the publication in German of *Die Physik der Zeitrichtung*, which appeared to as Vol. 200 of the Springer Lecture Notes in Physics. The present English version is not merely a translation of these notes, but has been widely revised and extended. The number of changes and additions roughly increases with chapter number. Chaps. 5 and 6 have been completely rewritten (except for Sect. 5. 1, which is a revised version of the former § 5. 2). The new

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title is intended to express the somewhat more ambitious program of this book as compared to its German predecessor. My interest in this subject stemmed originally from an attempt to place the quantum mechanical measurement process in its proper relation to other irreversible phenomena. It soon became evident that statistical thermodynamics is too limited for the search for the common roots of the obviously related arrows of time. It is precisely the interconnectedness of many areas of physics, and not least their relation to some fundamental concepts (or perhaps prejudices) of epistemology, which sustained my fascination with the subject of this book over many years. Thus it was not my intention to describe technicalities or mathematical problems, but to point out the essential physical ideas (which are often overlooked).

In *Process and Reality* and other works, Alfred North Whitehead struggled to come to terms with the impact the new science of quantum mechanics would have on metaphysics. This ambitious book is the first extended analysis of the intricate relationships between relativity theory, quantum mechanics, and Whitehead's cosmology. Michael Epperson illuminates the intersection of science and philosophy in Whitehead's work—and details Whitehead's attempts to fashion an ontology coherent with quantum anomalies. Including a nonspecialist introduction to

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quantum mechanics, Epperson adds an essential new dimension to our understanding of Whitehead-and of the constantly enriching encounter between science and philosophy in our century.

This volume is devoted to Quantum Decoherence with lectures from the Séminaire Poincaré, held in November 2005 at the Institute Henri Poincaré Paris. The goal of this seminar is to provide up-to-date information about general topics of great interest in physics. Both the theoretical and experimental results are covered, with some historical background. Particular care is devoted to the pedagogical nature of the presentation.

Entanglement and (de-)coherence arguably define the central issues of concern in present day quantum information theory. Entanglement being a consequence of the quantum mechanical superposition principle for composite systems, a better understanding of the environment-induced destruction of coherent superposition states is required to devise novel strategies for harvesting quantum interference phenomena. The present book collects a series of advanced lectures on the theoretical foundations of this active research field, from mathematical aspects underlying quantum topology to mesoscopic transport theory. All lectures start out from an elementary level and proceed along a steep

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learning curve. This makes the material particularly suitable for student seminars on the more fundamental theoretical aspects of quantum information, and equally useful as supplementary reading for advanced lectures on this topic.

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.

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