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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 contained in a book edited by Wheeler and Zurek (1983)

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When we were preparing the first
edition of this book, the concept of de
coherence was known only to a

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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 experimentally clearly established and theoretically well understood in principle.

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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

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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

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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

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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

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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,

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and 'particles' are a derived concept, unlike what might be suggested by the customary introduction of fields through a process of 'second quantisation'.

**The Role of Decoherence in
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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

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wave function still exists, but exists –
at least for all practical purposes [32] —
beyond the realm of ...

Quantum decoherence - Wikipedia

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Joos, Erich, Zeh, H Dieter, Kiefer,

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Quantum Decoherence consists in the
appearance of classical dynamics in
the evolution of a quantum system.

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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.

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**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

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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

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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,

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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

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and making decoherence processes directly observable.

The asymmetry of natural phenomena under time reversal is striking. Here Zeh investigates the most important classes of physical phenomena that characterize the arrow of time,

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discussing their interrelations as well as striving to uncover a cosmological common root of the phenomena, such as the time-independent wave function of the universe. The description of irreversible phenomena is shown to be fundamentally "observer-related". Both physicists and philosophers of science

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who reviewed the first edition considered this book a magnificent survey, a concise, technically sophisticated, up-to-date discussion of the subject, showing fine sensitivity to some of the crucial philosophical subtleties. This new and expanded edition will be welcomed by

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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

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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

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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

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Appearance Of A Classical World in 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.

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its newer incarnation as a fully relativistic, realist interpretation of quantum theory, while embarking on further explorations of the implications of quantum theory. This interpretation is applied to new experiments and alleged 'paradoxes' that are found to be fully explicable once various

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misconceptions are identified. There is currently much disagreement about the meaning of quantum theory, as well as confusion about the implications of various experiments such as 'weak measurements,' 'quantum eraser,' and delayed choice. This book provides a clear way

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forward, presenting new developments and elaborating a promising interpretational approach that has completely nullified earlier objections (such as the Maudlin objection). It also explains why some prominent competing interpretations, such as 'decoherence' in an Everettian ('Many

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Worlds') approach, do not work as advertised. Adventures in

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Appearance Of A Classical World in cosmological settings. It includes new sections on the meaning of probabilities in a cosmological context, irreversible aspects of quantum computers, and various consequences of the expansion of the Universe. In particular, the book offers an analysis of the physical concept of time.

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Traditional quantum theory has a very rigid structure, making it difficult to accommodate new properties emerging from novel systems. This book presents a flexible and unified theory for physical systems, from micro and macro quantum to classical.

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This is achieved by incorporating superselection rules and maximal symmetric operators into the theory. The resulting theory is applicable to classical, microscopic quantum and non-orthodox mixed quantum systems of which macroscopic quantum systems are examples. A unified

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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

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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
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