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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 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

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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 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 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 ...

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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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(April 2020) (Learn how and when to remove this template message) " 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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