

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 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."

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choosing the relative-decoherence interpretation of QM, the paradoxes formally disappear, leaving one with decoherence relative to the definite values of the beable; thus being only appearance, not absolute reality in QM. Relative to a different subject one has perseverance of coherence. Hence, in this approach it is

Is quantum decoherence reality or appearance?

Decoherence provides an explanatory mechanism for the appearance of wave function collapse and was first developed by David Bohm in 1952, who applied it to Louis DeBroglie's pilot-wave theory, producing Bohmian mechanics, the first successful hidden-variables interpretation of quantum mechanics.

Quantum decoherence - Wikipedia

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 ...

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

Decoherence is the study of interactions between a quantum system (generally a very small number of microscopic particles like electrons, photons, atoms, molecules, etc. - often just a single particle) and the larger macroscopic environment, which is normally treated "classically," that is, by ignoring quantum effects, but which decoherence theorists study quantum mechanically.

Decoherence - Information Philosopher

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