

quantum measurements and decoherence pdf

Decoherence, the measurement problem, and interpretations of quantum mechanics Bas Hensen Downing College Cambridge CB2 1DQ, UK June 24, 2010

Decoherence, the measurement problem, and interpretations

Distribution functions defined in accord with the quantum theory of measurement are combined with results obtained from the quantum Langevin equation to discuss decoherence in quantum Brownian motion.

(PDF) Quantum measurement and decoherence

Quantum measurement and decoherence ... results obtained from the quantum Langevin equation to discuss decoherence in quantum Brownian motion. Closed form expressions for wave packet spreading and the attenuation of coherence of a pair of wave packets are obtained. The results are exact within the context of linear passive dissipation.

Quantum measurement and decoherence - phys.lsu.edu

Quantum Measurements and Decoherence Models and Phenomenology by Michael B. Mensky P.N. Lebedev Physical Institute, Russian Academy of Sciences, Moscow, Russia Springer-Science+Business Media, B.Y. A C I.P. Catalogue record for this book is available from the Library of Congress.

Quantum Measurements and Decoherence - link.springer.com

measurement problems in quantum mechanics and their partial solution by environment-induced decoherence (plus some other important aspects of decoherence) is given. The point that decoherence does not solve the measure-

MEASUREMENTS AND DECOHERENCE - arXiv

Decoherence is essentially nothing else than quantum measurement, but considered from the point of view of its physical mechanism and resolved in time. The present book is devoted to the two concepts of quantum measurement and decoherence and to their interrelation, especially in the context of continuous quantum measurement.

Quantum Measurements and Decoherence | SpringerLink

PDF | General results about restrictions on measurements from inside are applied to quantum mechanics. They imply subjective decoherence: For an apparatus it is not possible to determine whether ...

(PDF) Subjective decoherence in quantum measurements

M. Schlosshauer, Decoherence, the measurement problem, and interpretations of quantum mechanics Reviews Of Modern Physics, Volume 76, 10/2004 ... 1/31/2014 The Collapse of Quantum Mechanics 23 Second summary A measurement is defined to be irreversible (for all practical purposes)

Decoherence and The Collapse of Quantum Mechanics

Decoherence and the Transition from Quantum to Classical Revisited. Correlations and Measurements A convenient starting point for the discussion of the measurement problem and, more generally, of the emergence of classical behavior from quantum dynamics is the analysis of quantum measurements due to John von Neumann (1932). In contrast to ...

Decoherence and the Transition from Quantum to Classical

Quantum decoherence is the loss of quantum coherence. In quantum mechanics, particles such as electrons are described by a wave function, a mathematical description of the quantum state of a system; the probabilistic nature of the wave function gives rise to various quantum effects.

Quantum decoherence - Wikipedia

Reply to "Comment on "Quantum measurement and decoherence"™" • G. W. Ford Department of Physics, University of Michigan, Ann Arbor, Michigan 48109-1120, USA

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Abstract: A pedagogical and reasonably self-contained introduction to the measurement problems in quantum mechanics and their partial solution by environment-induced decoherence (plus some other important aspects of decoherence) is given. The point that decoherence does not solve the measurement problems completely is clearly brought out. The relevance of interpretation of quantum mechanics in ...

[quant-ph/0505070] Measurements and Decoherence - arXiv

The decoherence of a quantum system, i.e., its becoming partly classical, results from its interaction with the environment and is well described in terms of continuous quantum measurement theory. In the present paper, various approaches to CQM theory are reviewed, of which that using effective complex Hamiltonians is discussed in detail.

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