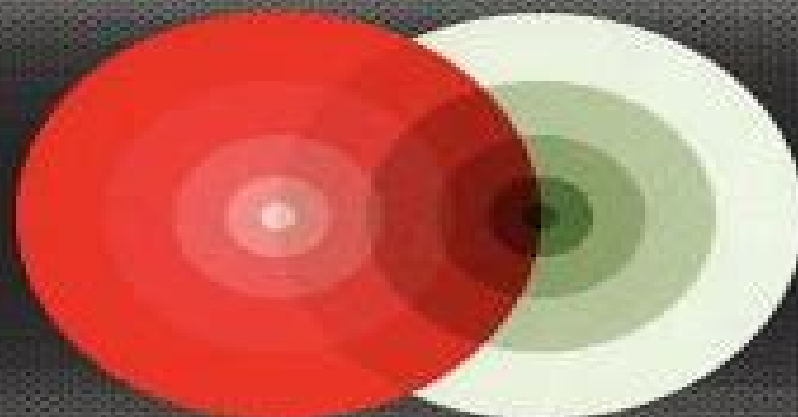


Quantum Measurements and Decoherence

Models and Phenomenology

by
Michael B. Mensky

Kluwer Academic Publishers



Fundamental Theories of Physics

Quantum Measurements And Decoherence Models And Phenomenology

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Quantum Measurements and Decoherence M. Mensky, 2013-04-17 Quantum measurement is a measurement which is sufficiently precise for quantum effects to be essential. It was always one of the most important points in quantum mechanics because it most evidently revealed the difference between quantum and classical physics. Now quantum measurement is again under active investigation, first of all because of the practical necessity of dealing with highly precise and complicated measurements. The nature of quantum measurement has become understood much better during this new period of activity, the understanding being expressed by the concept of decoherence. This term means a physical process leading from a pure quantum state (wave function of the system prior to the measurement) to its state after the measurement, which includes classical elements. More concretely, decoherence occurs as a result of the entanglement of the measured system with its environment and results in the loss of phase relations between components of the wave function of the measured system. 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 M. Mensky, 2014-01-15 **Multiple Facets of Quantization and Supersymmetry** M. A.

Olshanetsky, Arkady Vainshtein, 2002 This book is dedicated to the memory of Michael Marinov, the theorist who together with Felix Berezin introduced the classical description of spin by anticommuting Grassmann variables. It contains original papers and reviews by physicists and mathematicians written specifically for the book. These articles reflect the current status and recent developments in the areas of Marinov's research: quantum tunneling, quantization of constrained systems, supersymmetry and others. The personal recollections included portray the human face of M. Marinov, a person of great knowledge and integrity.

The Routledge Companion to Philosophy of Physics Eleanor Knox, Alastair

Wilson, 2021-09-28 The Routledge Companion to Philosophy of Physics is a comprehensive and authoritative guide to the state of the art in the philosophy of physics. It comprises 54 self-contained chapters written by leading philosophers of physics at both senior and junior levels, making it the most thorough and detailed volume of its type on the market. Nearly every major perspective in the field is represented. The Companion's 54 chapters are organized into 12 parts. The first seven parts cover all of the major physical theories investigated by philosophers of physics today, and the last five explore key themes that unite the study of these theories: I Newtonian Mechanics, II Special Relativity, III General Relativity, IV Non-Relativistic Quantum Theory, V Quantum Field Theory, VI Quantum Gravity, VII Statistical Mechanics and Thermodynamics, VIII Explanation, IX Intertheoretic Relations, X Symmetries, XI Metaphysics, XII Cosmology. The difficulty level of the chapters has been carefully pitched so as to offer both accessible summaries for those new to philosophy of physics and standard reference points for active researchers on the front lines. An introductory chapter by the editors maps out the field, and each

part also begins with a short summary that places the individual chapters in context The volume will be indispensable to any serious student or scholar of philosophy of physics *Physics, Uspekhi* ,2007 **Quantum Mechanics** Robert J. Russell, Specola vaticana, Center for Theology and the Natural Sciences, 2001 Quantum Mechanics a collection of fifteen essays explores the creative interaction among quantum physics philosophy and theology This fine collection presents the results of the fifth international research conference co sponsored by the Vatican Observatory Rome and the Center for Theology and the Natural Sciences Berkeley The overarching goal of these conferences is to support the engagement of constructive theology with the natural sciences and to investigate the philosophical and theological elements in ongoing theoretical research in the natural sciences In the first section of this collection contributors examine scientific and historical context Section two features essays covering a wide range of philosophical interpretations of quantum mechanics The final set of essays explores the theological implications of quantum theory Abner Shimony Raymond Y Chiao Michael Berry Ernan McMullin William R Stoeger S J James T Cushing Jeremy Butterfield Michael Redhead Chris Clarke John Polkinghorne Michael Heller Philip Clayton Thomas F Tracy George F R Ellis and Robert John Russell all contributed essays to this volume

Mathematical Reviews ,2006 **Scientific and Technical Aerospace Reports** ,1995 **Noise and Information in Nanoelectronics, Sensors, and Standards** ,2003 **The British National Bibliography** Arthur James Wells, 2000

10th International Ceramics Congress: Section A, Fundamentals of structure, property, reaction and unit processes of advanced ceramic systems; Section B, Corrosion and tribology of advanced ceramics; Section C, Ceramic powders synthesis and processing P. Vincenzini, 2003 Optics and Spectroscopy ,2004 *Books In Print 2004-2005* Ed Bowker Staff, Staff Bowker, Ed, 2004 "Запутанные" состояния Валентин Данилович Эрекаев, 2003 **Uspekhi fizicheskikh nauk** ,2007 *Journal of Physics A* ,2002 Focuses on fundamental mathematical and computational methods underpinning physics Relevant to statistical physics chaotic and complex systems classical and quantum mechanics classical and quantum integrable systems and classical and quantum field theory *Deutsche Nationalbibliographie und Bibliographie der im Ausland erschienenen deutschsprachigen Veröffentlichungen* ,1996 **Government Reports Announcements & Index** ,1995 **American Book Publishing Record** ,2000-07 *Forthcoming Books* Rose Arny, 2000

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In a fast-paced digital era where connections and knowledge intertwine, the enigmatic realm of language reveals its inherent magic. Its capacity to stir emotions, ignite contemplation, and catalyze profound transformations is nothing in short supply of extraordinary. Within the captivating pages of **Quantum Measurements And Decoherence Models And Phenomenology** a literary masterpiece penned with a renowned author, readers attempt a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book's core themes, assess its distinct writing style, and delve into its lasting effect on the hearts and minds of people who partake in its reading experience.

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