

Probing the Structure of

Quantum Mechanics

Nonlinearity

Nonlocality

Computation

Axiomatics



Editors: Diederik Aerts | Marek Czachor | Thomas Durt

World Scientific

Probing The Structure Of Quantum Mechanics

Robert K. Sears



Probing The Structure Of Quantum Mechanics:

Probing The Structure Of Quantum Mechanics: Nonlinearity, Nonlocality, Computation And Axiomatics

Diederik Aerts, Marek Czachor, Thomas Durt, 2002-06-11 During the last decade scientists working in quantum theory have been engaging in promising new fields such as quantum computation and quantum information processing and have also been reflecting on the possibilities of nonlinear behavior on the quantum level These are challenging undertakings because 1 they will result in new solutions to important technical and practical problems that were unsolvable by the classical approaches for example quantum computers can calculate problems that are intractable if one uses classical computers and 2 they open up new hard problems of a fundamental nature that touch the foundation of quantum theory itself for example the contradiction between locality and nonlinearity and the interpretation of quantum computing as a universal process In this book one can distinguish two main streams of research to approach the just mentioned problem field 1 a theoretical structural part which concentrates on the elaboration of a nonlinear quantum mechanics and the fundamentals of quantum computation and 2 a theoretical experimental part which focuses on the theoretical aspects of applications that arise from new technology and novel research perspectives such as quantum optics and quantum cryptography Particular attention is also paid to the measurement problem the classical limit and alternative interpretations such as the hidden measurement approach

Probing the Structure of Quantum Mechanics D. Aerts (ed.), 2002 Geometries Of Nature, Living Systems And Human Cognition: New Interactions Of Mathematics With Natural Sciences And Humanities Luciano Boi, 2005-11-02 The collection of papers forming this volume is intended to provide a deeper study of some mathematical and physical subjects which are at the core of recent developments in the natural and living sciences The book explores some far reaching interfaces where mathematics theoretical physics and natural sciences seem to interact profoundly The main goal is to show that an accomplished movement of geometrisation has enabled the discovery of a great variety of amazing structures and behaviors in physical reality and in living matter The diverse group of expert mathematicians physicists and natural scientists present numerous new results and original ideas methods and techniques Both academic and interdisciplinary the book investigates a number of important connections between mathematics theoretical physics and natural sciences including biology

The Elegant Universe Brian Greene, 2024-08-20 NATIONAL BESTSELLER Finalist for the Pulitzer Prize A new edition of the iconic bestseller that introduced legions to modern physics and the quest for the ultimate understanding of the cosmos featuring a new preface and epilogue With a rare blend of scientific insight and writing as graceful as the theories it so deftly explains The Elegant Universe remains the unrivaled account of the modern search for the deepest laws of nature a standard that will be hard to beat George Johnson New York Times Book Review In this new 25th anniversary edition renowned physicist and author Brian Greene the single best explainer of abstruse concepts in the world today Washington Post updates his classic work with a new preface and epilogue summarizing the significant

theoretical and experimental developments over the past quarter century From established science including relativity and quantum mechanics to the cutting edge of thinking on black holes string theory and quantum gravity The Elegant Universe makes some of the most sophisticated concepts ever contemplated thoroughly accessible and entertaining bringing us closer than ever to comprehending how the universe works *The Elegant Universe: Superstrings, Hidden Dimensions, and the Quest for the Ultimate Theory* Brian Greene, 2010-10-11 The international bestseller that inspired a major Nova special and sparked a new understanding of the universe Brian Greene one of the world's leading string theorists peels away layers of mystery to reveal a universe that consists of eleven dimensions where the fabric of space tears and repairs itself and all matter from the smallest quarks to the most gargantuan supernovas is generated by the vibrations of microscopically tiny loops of energy The Elegant Universe makes some of the most sophisticated concepts ever contemplated accessible and thoroughly entertaining bringing us closer than ever to understanding how the universe works *Mathematical Reviews*, 2004 *Scanning Probe Microscopy Studies of Surface and Electronic Structures in Lower-dimensional Metals and Insulators* Qing Xue, 1994 *Selected Studies on Scan Probe Microscopy* Wei Wang, 2004 **Journal of the Physical Society of Japan**, 2018 Scanning Probe Study of a Two-dimensional Electron System and Donor Layer Charging in Heterostructured Semiconductors Irma Kuljanishvili, 2005 Deutsche Nationalbibliographie und Bibliographie der im Ausland erschienenen deutschsprachigen Veröffentlichungen, 2009 **Probing The Meaning Of Quantum Mechanics: Information, Contextuality, Relationalism And Entanglement - Proceedings Of The Ii International Workshop On Quantum Mechanics And Quantum Information. Physical, Philosophical And Logical Approaches** Diederik Aerts, Maria Luisa Dalla Chiara, Christian De Ronde, Decio Krause, 2018-11-15 This book provides an interdisciplinary perspective on one of the most fascinating and important open questions in science What is quantum mechanics talking about Quantum theory is perhaps our best confirmed physical theory However despite its great empirical effectiveness and the subsequent technological developments that it gave rise to in the 20th century from the interpretation of the periodic table of elements to CD players holograms and quantum state teleportation it stands even today without a universally accepted interpretation The novelty of the book comes from the multiple viewpoints and subjects investigated by a group of researchers from Europe and North and South America **Scientific and Technical Aerospace Reports**, 1967

Probing The Meaning Of Quantum Mechanics: Probability, Metaphysics, Explanation And Measurement Diederik Aerts, Jonas Arenhart, Christian De Ronde, Giuseppe Sergioli, 2023-09-21 Quantum theory is perhaps our best confirmed theory for a description of the physical properties of nature On top of demonstrating great empirical effectiveness many technological developments in the 20th century such as the interpretation of the periodic table of elements CD players holograms and quantum state teleportation were only made possible with Quantum theory Despite its success in the past decades even today it still remains without a universally accepted interpretation This book provides an interdisciplinary

perspective on the question What is Quantum Mechanics talking about a question which continues to be one of the most fascinating and important questions in science Using an interdisciplinary approach to foundational problems in Quantum Mechanics QM ranging from philosophical questions about the interpretation of QM to technical problems in quantum computation this book explores quantum mechanics from different perspectives physical logical philosophical and mathematical by researchers from Europe North America and South America **Physical Probes of Nerve Membrane Structure** Gerald Entine,1969 *Mesoscopic Quantum Physics* Université Joseph Fourier,1995 These proceedings focus on aspects of disorder where quantum interferences are present All recent developments in the field are covered and the book is organized with particular attention to pedagogy It includes both a description of the physical phenomena and a review of methods Scanning-probe Study of Dopant Charging in a Semiconductor Heterostructure Cemil Kayis,2008 *Scanning Probe Microscopy of Clay Minerals* K. L. (ed.) Nagy,Alex E. Blum,Clay Minerals Society,1994 Scanning Probe Microscopy of a GaAs Heterostructure Under Ambient Conditions Robert K. Sears,1996 **Documentation of Plasma Physics. Pt. 1, Experimental Plasma Physics [and] Theoretical Plasma Physics** ,1975

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