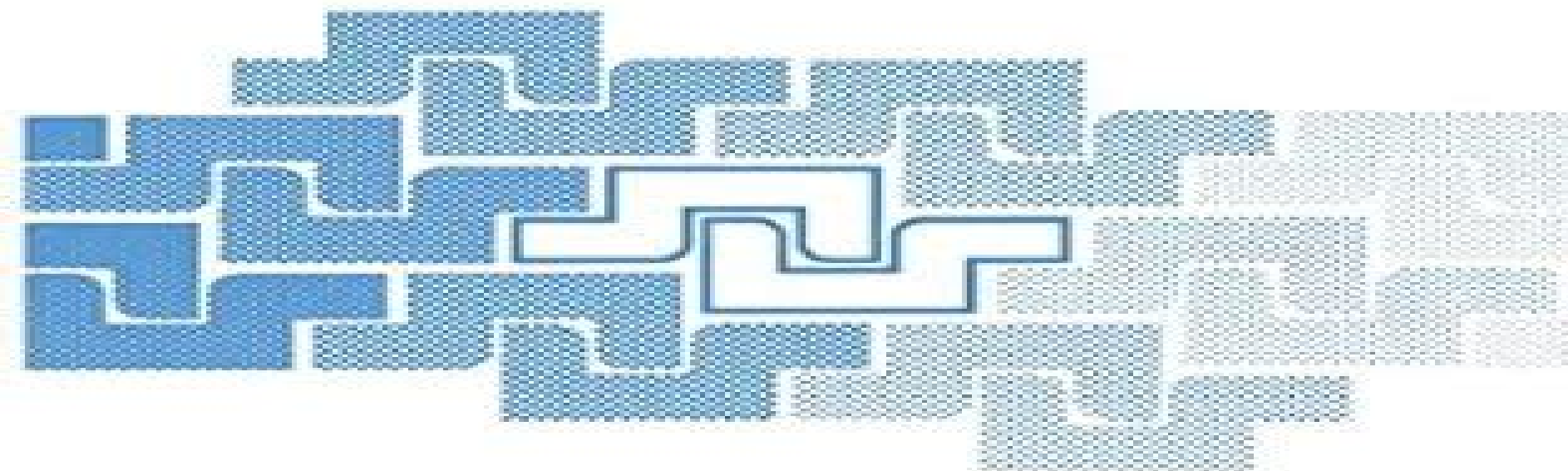




Quantum Uncertainties

Recent and Future Experiments and Interpretations

Edited by
William M. Honig
David W. Kraft and
Emilio Panarella

NATO ASI Series

Series B: Physics Vol. 162

Quantum Uncertainties Recent And Future Experiments And Interpretations

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Quantum Uncertainties Recent And Future Experiments And Interpretations:

Quantum Uncertainties William M. Honig, David W. Kraft, Emilio Panarella, 2012-12-06 *Quantum Uncertainties* William M. Honig, David W. Kraft, Emilio Panarella, 2012-03-08 **The Present Status of the Quantum Theory of Light** Stanley Jeffers, S. Roy, J.P. Vigier, G. Hunter, 2012-12-06

THE PRESENT STATUS OF THE QUANTUM THEORY OF LIGHT In August of 1995 a group of over 70 physicists met at York University for a three day symposium in honour of Professor Jean Pierre Vigier The attendance included theoretical and experimental physicists mathematicians astronomers and colleagues concerned with issues in the philosophy of science The symposium was entitled The Present Status of the Quantum Theory of Light in accordance with Professor Vigier s wishes but in fact encompassed many of the areas to which Professor Vigier has contributed over his long and distinguished career These include stochastic interpretations of quantum mechanics particle physics and electromagnetic theory The papers presented at the symposium have been arranged in this proceedings in the following approximate order ideas about the nature of light and photons electrodynamics the formulation and interpretation of quantum mechanics and aspects of relativity theory Some of the papers presented deal with alternate interpretations of quantum phenomena in the tradition of Vigier Bohm et al These interpretations reject the account given in purely probabilistic terms and which deems individual quantum events to be acausal and not amenable to any analysis in space time terms As is well known Einstein and others also rejected the purely statistical account of quantum mechanics As stressed by Professor Vigier at the symposium the current experimental situation now allows for the first time for individual quantum events to be studied e g *Problems In Quantum Physics Ii; Gdansk 89 - Recent And Future Experiments And Interpretations* Marek Zukowski, Jacek Mizerski, Andrzej Posiewnik, Jaroslaw Pykacz, 1990-08-30 The papers in this volume discuss both the theoretical concepts and experiments of the fundamental problems associated with the interpretation of Quantum Mechanics The major theme is the continuation of the discussion between Bohr and Einstein in the light of modern technology which can turn gedanken experiments into realizable ones Differences between various interpretations and results of recently performed experiments tests of Bell s inequalities neutron interferometry fourth order interferometry are presented A wide scope of possible interpretations or views are covered but no preference is given to any particular one In addition philosophical problems associated with the question of foundations of quantum mechanics are also discussed

Quantum Potential: Physics, Geometry and Algebra Ignazio Licata, Davide Fiscaletti, 2013-11-19 Recently the interest in Bohm realist interpretation of quantum mechanics has grown The important advantage of this approach lies in the possibility to introduce non locality ab initio and not as an unexpected host In this book the authors give a detailed analysis of quantum potential the non locality term and its role in quantum cosmology and information The different approaches to the quantum potential are analysed starting from the original attempt to introduce a realism of particles trajectories influenced by de Broglie s pilot wave to the recent dynamic interpretation provided by Goldstein Durr Tumulka and Zangh and the

geometrodynamic picture with suggestion about quantum gravity Finally we focus on the algebraic reading of Hiley and Birkbeck school that analyse the meaning of the non local structure of the world bringing important consequences for the space time and information concepts

Quantum Causality Peter J. Riggs, 2009-06-05 There is no sharp dividing line between the foundations of physics and philosophy of physics This is especially true for quantum mechanics The debate on the interpretation of quantum mechanics has raged in both the scientific and philosophical communities since the 1920s and continues to this day We shall understand the unqualified term quantum mechanics to mean the mathematical formalism i e laws and rules by which empirical predictions and theoretical advances are made There is a popular rendering of quantum mechanics which has been publicly endorsed by some well known physicists which says that quantum mechanics is not only 1 more weird than we imagine but is weirder than we can imagine Although it is readily granted that quantum mechanics has produced some strange and counter intuitive results the case will be presented in this book that quantum mechanics is not as weird as we might have been led to believe The prevailing theory of quantum mechanics is called Orthodox Quantum Theory also known as the Copenhagen Interpretation Orthodox Quantum Theory endows a special status on measurement processes by requiring an intervention of an observer or an observer's proxy e g a measuring apparatus The placement of the observer or proxy is somewhat arbitrary which introduces a degree of subjectivity Orthodox Quantum Theory only predicts probabilities for measured values of physical quantities It is essentially an instrumental theory i e

Knowledge Potential Measurement and Uncertainty Kerstin Fink, 2012-12-06 Kerstin Fink discusses the two mainstream measurement fields the cognitive science approach and the management approach She develops the knowledge potential view which is determined by nine key measurement variables i e content culture networking organizational knowledge learning and training customer and competitor knowledge and knowledge management systems

Structure of Space and the Submicroscopic Deterministic Concept of Physics Volodymyr Krasnoholovets, 2017-07-06 This book *Structure of Space and the Submicroscopic Deterministic Concept of Physics* completely formalizes fundamental physics by showing that all space which consists of objects and distances arises from the same origin manifold of sets A continuously organized mathematical lattice of topological balls represents the primary substrate named the tessellattice All fundamental particles arise as local fractal deformations of the tessellattice The motion of such particulate balls through the tessellattice causes it to deform neighboring cells which generates a cloud of a new kind of spatial excitations named inertons Thus so called hidden variables introduced in the past by de Broglie Bohm and Vigier have acquired a sense of real quasiparticles of space This theory of space unambiguously answers such challenging issues as what is mass what is charge what is a photon what is the wave psi function what is a neutrino what are the nuclear forces and so on The submicroscopic concept uncovers new peculiar properties of quantum systems especially the dynamics of particles within a section equal to the particle's de Broglie wavelength which are fundamentally impossible for quantum mechanics This concept thoroughly discussed in the book

allows one to study complex problems in quantum optics and quantum electrodynamics in detail to disclose an inner world of particle physics by exposing the structure of quarks and nucleons in real space and to derive gravity as the transfer of local deformations of space by inertons which in turn completely solves the problems of dark matter and dark energy Inertons have revealed themselves in a number of experiments carried out in condensed media plasma nuclear physics and astrophysics which are described in this book together with prospects for future studies in both fundamental and applied physics

Interpretations of Probability Andrei Khrennikov, 2020-01-20 No detailed description available for Interpretations of Probability

Techniques and Concepts of High-Energy Physics IV Thomas Ferbel, 2012-12-06 The fourth Advanced Study Institute ASI on Techniques and Concepts of High Energy Physics was held once again at the Hotel on the Cay in the scenic harbor of Christiansted St Croix U S Virgin Islands The ASI brought together a total of 67 participants from 17 different countries It was a great success due to the dedication of the inspiring lecturers the exceptional student body and of course the beautiful setting The primary support for the meeting was again provided by the Scientific Affairs Division of NATO The ASI was cosponsored by the U S Department of Energy by Fermilab by the National Science Foundation and by the University of Rochester A special contribution from the Oliver S and Jennie R Donaldson Charitable Trust provided an important degree of flexibility as well as support for worthy students from developing nations As in the case of the previous ASI s the scientific program was designed for advanced graduate students and recent PhD recipients in experimental particle physics The present volume of lectures should complement the material published in the first three ASI s and prove to be of value to a wider audience of physicists It is a pleasure to acknowledge the encouragement and support that I have continued to receive from colleagues and friends in organizing this meeting I am indebted to the members of my Advisory Committee for their infinite patience and excellent advice I am grateful to my distinguished lecturers for participating in the ASI

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