

Lecture Notes in Physics

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Henri Bacry

Localizability and Space
in Quantum Physics



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Localizability And Space In Quantum Physics

Alexander S. Holevo



Localizability And Space In Quantum Physics:

Localizability and Space in Quantum Physics Henri Bacry, 1988 This book discusses in detail the concept of light quanta photons and presents a historical survey of the ideas involved It analyses critically the principles of complementarity and correspondence as well as the quantization procedure The work of Wigner Newton and Wightman on localized states is discussed The author presents many new ideas and gives a new way of defining the position operator He invites physicists to look in new directions and aims to convince the reader that light quanta are not compatible with our present concept of space in quantum physics The book should be of interest to students as well as to researchers in modern physics and should revive the discussion of the foundations of modern physics

Stochastic Quantum Mechanics and Quantum Spacetime Eduard Prugovečki, 1984-01-31 The principal intent of this monograph is to present in a systematic and self contained fashion the basic tenets ideas and results of a framework for the consistent unification of relativity and quantum theory based on a quantum concept of spacetime and incorporating the basic principles of the theory of stochastic spaces in combination with those of Born's reciprocity theory In this context by the physical consistency of the present framework we mean that the advocated approach to relativistic quantum theory relies on a consistent probabilistic interpretation which is proven to be a direct extrapolation of the conventional interpretation of nonrelativistic quantum mechanics The central issue here is that we can derive conserved and relativistically covariant probability currents which are shown to merge into their nonrelativistic counterparts in the nonrelativistic limit and which at the same time explain the physical and mathematical reasons behind the basic fact that no probability currents that consistently describe pointlike particle localizability exist in conventional relativistic quantum mechanics Thus it is not that we dispense with the concept of locality but rather the advanced central thesis is that the classical concept of locality based on pointlike localizability is inconsistent in the realm of relativistic quantum theory and should be replaced by a concept of quantum locality based on stochastically formulated systems of covariance and related to the aforementioned currents

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conventional relativistic quantum mechanics Thus it is not that we dispense with the concept of locality but rather the advanced central thesis is that the classical concept of locality based on point like localizability is inconsistent in the realm of relativistic quantum theory and should be replaced by a concept of quantum locality based on stochastically formulated systems of covariance and related to the aforementioned currents **Localization and Space in Quantum Physics** Henri Bacry, 1988

Statistical Structure of Quantum Theory Alexander S. Holevo, 2003-07-01 New ideas on the mathematical foundations of quantum mechanics related to the theory of quantum measurement as well as the emergence of quantum optics quantum electronics and optical communications have shown that the statistical structure of quantum mechanics deserves special investigation In the meantime it has become a mature subject In this book the author himself a leading researcher in this field surveys the basic principles and results of the theory concentrating on mathematically precise formulations Special attention is given to the measurement dynamics The presentation is pragmatic concentrating on the ideas and their motivation For detailed proofs the readers researchers and graduate students are referred to the extensively documented literature **Immense Journey, The: From The Birth Of The Universe To The Rise Of Intelligence**

Gerald E Marsh, 2018-02-26 This book is an attempt to trace the majestic immense journey from the coming into being of the universe to the emergence and evolution of life It is intended to complement the many excellent books that cover different aspects of this journey The contents have been classified into five parts Part I covers the coming into existence of the universe while Part II presents the beginning of life on the early Earth following which Part III discusses the emergence of consciousness and intelligence and Part IV the immense journey of the universe beyond Earth Finally Part V addresses the problems raised by the rise of higher order consciousness in human beings as captured by the phrase the human condition

Special Relativity and Quantum Theory M. Noz, Young Suh Kim, 2012-12-06 Special relativity and quantum mechanics are likely to remain the two most important languages in physics for many years to come The underlying language for both disciplines is group theory Eugene P Wigner s 1939 paper on the Unitary Representations of the Inhomogeneous Lorentz Group laid the foundation for unifying the concepts and algorithms of quantum mechanics and special relativity In view of the strong current interest in the space time symmetries of elementary particles it is safe to say that Wigner s 1939 paper was fifty years ahead of its time This edited volume consists of Wigner s 1939 paper and the major papers on the Lorentz group published since 1939 This volume is intended for graduate and advanced undergraduate students in physics and mathematics as well as mature physicists wishing to understand the more fundamental aspects of physics than are available from the fashion oriented theoretical models which come and go The original papers contained in this volume are useful as supplementary reading material for students in courses on group theory relativistic quantum mechanics and quantum field theory relativistic electrodynamics general relativity and elementary particle physics This reprint collection is an extension of the textbook by the present editors entitled *Theory and Applications of the Poincare Group* Since this book is largely based

on the articles contained herein the present volume should be viewed as a reading for the previous work continuation of and supplementary We would like to thank Professors J Bjorken R Feynman R Hofstadter J

Equivariant Cohomology and Localization of Path Integrals Richard J. Szabo, 2003-07-01 This book addressing both researchers and graduate students reviews equivariant localization techniques for the evaluation of Feynman path integrals The author gives the relevant mathematical background in some detail showing at the same time how localization ideas are related to classical integrability The text explores the symmetries inherent in localizable models for assessing the applicability of localization formulae Various applications from physics and mathematics are presented

Mathematical Methods in Physics Philippe Blanchard, Erwin Bruening, 2012-12-06 Physics has long been regarded as a wellspring of mathematical problems Mathematical Methods in Physics is a self contained presentation driven by historic motivations excellent examples detailed proofs and a focus on those parts of mathematics that are needed in more ambitious courses on quantum mechanics and classical and quantum field theory Aimed primarily at a broad community of graduate students in mathematics mathematical physics physics and engineering as well as researchers in these disciplines

The Quantum World Bernard d'Espagnat, Hervé Zwirn, 2017-05-08 In this largely nontechnical book eminent physicists and philosophers address the philosophical impact of recent advances in quantum physics These are shown to shed new light on profound questions about realism determinism causality or locality The participants contribute in the spirit of an open and honest discussion reminiscent of the time when science and philosophy were inseparable After the editors introduction the next chapter reveals the strangeness of quantum mechanics and the subsequent discussions examine our notion of reality The spotlight is then turned to the topic of decoherence Bohm's theory is critically examined in two chapters and the relational interpretation of quantum mechanics is likewise described and discussed The penultimate chapter presents a proposal for resolving the measurement problem and finally the topic of loop quantum gravity is presented by one of its founding fathers Carlo Rovelli The original presentations and discussions on which this volume is based took place under the auspices of the French Académie des Sciences Morales et Politiques The book will appeal to everybody interested in knowing how our description of the world is impacted by the results of the most powerful and successful theory that physicists have ever built

On Klauder's Path G rard G. Emch, G. C. Hegerfeldt, Ludwig Streit, 1994 This volume contains contributions by friends colleagues and associates of John R Klauder on the occasion of his 60th birthday Klauder's scientific work embraces vast territories from quantum theories to general relativity optics and chaotic dynamics A recurrent theme in his research is the role played by coherent states in particular in connection with path integral formulations of quantization Perhaps at a less lofty level this concept has had at least two spectacular applications as a powerful investigative tool in quantum optics and as a precursor to wavelets In a different vein Klauder also attacked specific non renormalizable but exactly soluble hard core models in field theory where he uncovered what has since been called the Klauder phenomenon The contributors to this volume represent

the special brand of mathematicians and physicists John Klauder helped define throughout his seminal career in the industrial and academic worlds *Identification Of Dark Matter, The - Proceedings Of The Fifth International Workshop* Neil J C Spooner,Vitaly Kudryavtsev,2005-05-12 The prestigious Identification of Dark Matter workshop series was initiated to assess the status of work that attempts to identify the constitution of dark matter In particular it aims to review the success of current methods that are used in the search for dark matter as well as the new techniques that are likely to improve prospects for detecting possible dark matter candidates in the future In the 5th International Workshop special emphasis was placed on the recent results obtained in experiments searching for baryonic and non baryonic dark matter This volume comprises the high quality review articles and papers contributed by leaders and promising young physicists who attended the conference It provides the most recent updates on dark matter searches from both experimental and theoretical points of view The proceedings have been selected for coverage in Index to Scientific Technical Proceedings ISTP ISI Proceedings Index to Scientific Technical Proceedings ISTP CDROM version ISI Proceedings CC Proceedings Engineering Physical Sciences *Nuclear Science Abstracts* ,1976 **Strings, Branes And Gravity (Tasi 1999)** Jeffrey A Harvey,Shamit Kachru,Eva Silverstein,2001-10-19 Many of the topics in this book are outgrowths of the spectacular new understanding of duality in string theory which emerged around 1995 They include the AdS CFT correspondence and its relation to holography the matrix theory formulation of M theory the structure of black holes in string theory the structure of D branes and M branes and detailed development of dualities with N 1 and N 2 supersymmetry In addition there are lectures covering experimental and phenomenological aspects of the Standard Model and its extensions and discussions on cosmology including both theoretical aspects and the exciting new experimental evidence for a non zero cosmological constant The Physics and Chemistry of Inorganic Clathrates George S. Nolas,2014-08-12 The chemistry and physics of group 14 elements such as silicon and germanium have been extensively studied largely due to their fundamental importance in the development of semiconductor electronics In addition crystalline open framework and nano porous materials are attracting increasing attention for their potential technological applications Inorganic open framework materials comprised of group 14 elements crystallizing in crystal structures known as clathrates are of particular interest These materials correspond to expanded forms and in some cases metastable allotropes of silicon germanium and tin The novel crystal structures these materials possess are intimately related to the unique physical properties they exhibit Just as interesting as the structure and properties group 14 clathrates display is the diverse range of synthetic techniques developed to synthesize and grow single crystals of these materials This volume will encompass many of these aspects and describe their potential for important technological applications *Scientific and Technical Aerospace Reports* ,1991 **The Collected Works of P. A. M. Dirac: Volume 1** P. A. M. Dirac,1995-10-26 A comprehensive collection of the scientific papers of one of this century s most outstanding physicists **Interface Between Physics And Mathematics - Proceedings Of The International**

Conference J-m Shen, Werner Nahm, 1994-06-28 This textbook systematically presents fundamental methods of statistical analysis from probability and statistical distributions through basic concepts of statistical inference to a collection of methods of analysis useful for scientific research It is rich in tables diagrams and examples in addition to theoretical justification of the methods of analysis introduced Each chapter has a section entitled Exercises and Problems to accompany the text There are altogether about 300 exercises and problems answers to the selected problems are given A section entitled Proof of the Results in This Chapter in each chapter provides interested readers with material for further study **General physics, relativity, astronomy and mathematical physics and methods**, 1991 *The Ultimate Constituents of the Material World* Meinard Kuhlmann, 2013-05-02 Today quantum field theory QFT the mathematical and conceptual framework for contemporary elementary particle physics is the best starting point for analysing the fundamental building blocks of the material world QFT if taken seriously in its metaphysical implications yields a picture of the world that is at variance with central classical conceptions The core of Kuhlmann's investigation consists in the analysis of various ontological interpretations of QFT e.g. substance ontologies as well as a process ontological approach Eventually Kuhlmann proposes a dispositional trope ontology according to which particularized properties and not things are the most basic entities in terms of which all other entities are to be analysed e.g. as bundles of properties This book was chosen for the 2009ontos Award for research on analytical ontology and metaphysics by the German Society for Analytical Philosophy

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