

# QUANTUM THEORY AND THE STRUCTURES OF TIME AND SPACE

Edited by L. Castell, M. Drieschner,  
C. F. von Weizsäcker

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# Quantum Theory And The Structures Of Space And Time

**Vesselin Petkov**



## **Quantum Theory And The Structures Of Space And Time:**

Quantum Theory and the Structures of Time and Space Conference on Quantum Theory and the Structures of Time and Space, Feldafing, Germany, 1975      **The Quantum Structure of Space and Time** David Gross, Marc Henneaux, Alexander Sevrin, 2007 Ever since 1911 the Solvay Conferences have shaped modern physics The 23rd edition chaired by 2004 Nobel Laureate David Gross did not break with that tradition It gathered most of the leading figures working on the central problem of reconciling Einstein's theory of gravity with quantum mechanics These proceedings give a broad overview with unique insight into the most fundamental issues raised by this challenge for 21st century physics by distinguished renowned scientists The contributions cover the status of quantum mechanics spacetime singularities and breakdown of classical space and time mathematical structures underlying the most promising attempts under current development spacetime as an emergent concept as well as cosmology and the cosmological constant puzzle A historical overview of the Solvay conferences by historian of sciences Peter Galison opens the volume In the Solvay tradition the volume also includes the discussions among the participants OCo many of which were quite lively and illustrate dramatically divergent points of view OCo carefully edited and reproduced in full      *Quantum Theory and the Structures of Time and Space* Lutz Castell, Michael Drieschner, Carl Friedrich von Weizsäcker, 1977      *Space-Time Structure* Erwin Schrödinger, 1985-10-17 In response to repeated requests this classic book on space time structure by Professor Erwin Schrödinger is now available in the Cambridge Science Classics series First published in 1950 and reprinted in 1954 and 1960 this lucid and profound exposition of Einstein's 1915 theory of gravitation still provides valuable reading for students and research workers in the field      **100 Years Of Relativity: Space-time Structure - Einstein And Beyond** Abhay Ashtekar, 2005-11-22 Thanks to Einstein's relativity theories our notions of space and time underwent profound revisions about a 100 years ago The resulting interplay between geometry and physics has dominated all of fundamental physics since then This volume contains contributions from leading researchers worldwide who have thought deeply about the nature and consequences of this interplay The articles take a long range view of the subject and distill the most important advances in broad terms making them easily accessible to non specialists The first part is devoted to a summary of how relativity theories were born J Stachel The second part discusses the most dramatic ramifications of general relativity such as black holes P Chrusciel and R Price space time singularities H Nicolai and A Rendall gravitational waves P Laguna and P Saulson the large scale structure of the cosmos T Padmanabhan experimental status of this theory C Will as well as its practical application to the GPS system N Ashby The last part looks beyond Einstein and provides glimpses into what is in store for us in the 21st century Contributions here include summaries of radical changes in the notions of space and time that are emerging from quantum field theory in curved space times Ford string theory T Banks loop quantum gravity A Ashtekar quantum cosmology M Bojowald discrete approaches Dowker Gambini and Pullin and twistor theory R Penrose      *Quantum Theory and the Structures of Time and*

*Space* L. Castell, M. Drieschner, Carl Friedrich Freiherr von Weizsäcker, 1975      **Symmetries in Science V** Bruno Gruber, L.C. Biedenharn, H.D. Döbner, 2012-12-06 Proceedings of a symposium held in Landesbildungszentrum Schloss Hofen Lochau Vorarlberg Austria July 30 August 3 1990      *Relativity and the Dimensionality of the World* Vesselin Petkov, 2007-10-08 All physicists would agree that one of the most fundamental problems of the 21st century physics is the dimensionality of the world In the four dimensional world of Minkowski or Minkowski spacetime the most challenging problem is the nature of the temporal dimension In Minkowski spacetime it is merely one of the four dimensions which means that it is entirely given like the other three spacial dimensions If the temporal dimension were not given in its entirety and only one constantly changing moment of it existed Minkowski spacetime would be reduced to the ordinary three dimensional space But if the physical world represented by Minkowski spacetime is indeed four dimensional with time being the fourth dimension then such a world is drastically different from its image based on our perceptions Minkowski four dimensional world is a block Universe a frozen world in which nothing happens since all moments of time are given at once which means that physical bodies are four dimensional worldtubes containing the whole histories in time of the three dimensional bodies of our everyday experience The implications of a real Minkowski world for physics itself and especially for our world view are enormous The main focus of this volume is the question is spacetime nothing more than a mathematical space which describes the evolution in time of the ordinary three dimensional world or is it a mathematical model of a real four dimensional world with time entirely given as the fourth dimension It contains fourteen invited papers which either directly address the main question of the nature of spacetime or explore issues related to it      **The Conformal Structure of Space-Times** Jörg Frauendiener, Helmut Friedrich, 2008-01-11 Causal relations and with them the underlying null cone or conformal structure form a basic ingredient in all general analytical studies of asymptotically flat space time The present book reviews these aspects from the analytical geometrical and numerical points of view Care has been taken to present the material in a way that will also be accessible to postgraduate students and nonspecialist researchers from related fields  
Causality, Measurement Theory and the Differentiable Structure of Space-Time R. N. Sen, 2010-02-11 Introducing graduate students and researchers to mathematical physics this book discusses two recent developments the demonstration that causality can be defined on discrete space times and Sewell's measurement theory in which the wave packet is reduced without recourse to the observer's conscious ego nonlinearities or interaction with the rest of the universe The definition of causality on a discrete space time assumes that space time is made up of geometrical points Using Sewell's measurement theory the author concludes that the notion of geometrical points is as meaningful in quantum mechanics as it is in classical mechanics and that it is impossible to tell whether the differential calculus is a discovery or an invention Providing a mathematical discourse on the relation between theoretical and experimental physics the book gives detailed accounts of the mathematically difficult measurement theories of von Neumann and Sewell      **The Large Scale Structure of Space-Time**

S. W. Hawking, G. F. R. Ellis, 1975-02-27 Einstein's General Theory of Relativity leads to two remarkable predictions first that the ultimate destiny of many massive stars is to undergo gravitational collapse and to disappear from view leaving behind a black hole in space and secondly that there will exist singularities in space time itself These singularities are places where space time begins or ends and the presently known laws of physics break down They will occur inside black holes and in the past are what might be construed as the beginning of the universe To show how these predictions arise the authors discuss the General Theory of Relativity in the large Starting with a precise formulation of the theory and an account of the necessary background of differential geometry the significance of space time curvature is discussed and the global properties of a number of exact solutions of Einstein's field equations are examined The theory of the causal structure of a general space time is developed and is used to study black holes and to prove a number of theorems establishing the inevitability of singularities under certain conditions A discussion of the Cauchy problem for General Relativity is also included in this 1973 book

**Pascos '94 - Proceedings Of The Fourth International Symposium On Particles, Strings And Cosmology**

Kameshwar C Wali, 1995-03-31 This proceedings volume is sixth in the series of international conferences covering the fission quasi fission fusion fission phenomena and synthesis of superheavy nuclei mainly at low or near barrier energies Both experimental and theoretical issues are covered The topics are discussed by a group of participants and an overview of the current activities in the field is given

Helix Network Theory Runyuan Gan, 2023-02-08 Based on the philosophy of Systems Science and the law of evolution theory the book by applying the methods of structural functionalism divides the modern social system into human culture economy polity science law education and other sub systems through the systematic synthesis of disciplines such as economics sociology management politics culture theories history and philosophy and explores the connection between these sub systems and their intricate relation with social progress thus depicting the historical trajectory of the long term evolution of human social system Starting from the actual production and operation of the firms the author systematically analyses the organic connections and sophisticated operating process of social reproduction in modern society from micro meso and macro revealing the dynamic structure and evolutionary laws of the social economic system This book reveals the fractal features such as self similarity hierarchy and recursiveness in the general structure of the firm system the sector system and the national economic system thereby integrating micro meso and macro economics into a unified theoretical framework This integration is interdisciplinary and has gone beyond the economics It can be regarded as the fourth grand synthesis in the history of economics after John Stuart Mill 1806 1873 Alfred Marshall 1842 1924 and Samuelson 1915 2009

**Nuclear Science Abstracts**, 1976

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

Quantum Theory and the Structures of Time and Space, Volume 2 L. Castell, M. Drieschner, Carl Friedrich Freiherr von Weizsäcker, 1977 *Group Theory in Non-Linear Problems* P. Barut, 2012-12-06 This is the second volume of a series of books in various aspects of Mathematical Physics Mathematical Physics has made great strides in recent years and is rapidly becoming an important discipline in its own right The fact that physical ideas can help create new mathematical theories and rigorous mathematical theorems can help to push the limits of physical theories and solve problems is generally acknowledged We believe that continuous contacts between mathematicians and physicists and the resulting dialogue and the cross fertilization of ideas is a good thing This series of studies is published with this goal in mind The present volume contains contributions which were originally presented at the Second NATO Advanced Study Institute on Mathematical Physics held in Istanbul in the Summer of 1972 The main theme was the application of group theoretical methods in general relativity and in particle physics Modern group theory in particular the theory of unitary irreducible infinite dimensional representations of Lie groups is being increasingly important in the formulation and solution of dynamical problems in various branches of physics There is moreover a general trend of rapprochement of the methods of general relativity and elementary particle physics We hope it will be useful to present these investigations to a larger audience

**The Large Scale Structure of Space-Time** Stephen W. Hawking, George F. R. Ellis, 2023-02-16 First published in 1973 this influential work discusses Einstein s General Theory of Relativity to show how two of its predictions arise first that the ultimate fate of many massive stars is to undergo gravitational collapse to form black holes and second that there was a singularity in the past at the beginning of the universe Starting with a precise formulation of the theory including the necessary differential

geometry the authors discuss the significance of space time curvature and examine the properties of a number of exact solutions of Einstein's field equations They develop the theory of the causal structure of a general space time and use it to prove a number of theorems establishing the inevitability of singularities under certain conditions A Foreword contributed by Abhay Ashtekar and a new Preface from George Ellis help put the volume into context of the developments in the field over the past fifty years

How Greek Philosophy Corrupted the Christian Concept of God Richard R. Hopkins, 2023-02-14 This insightful book brings profound new insights to the Trinitarian doctrines of orthodox Christianity With clear and precise documentation the book shows how these doctrines migrated into early Christianity from Greek philosophy The various aspects of Trinitarian belief are isolated linked to their Greek sources and carefully analyzed to show they differ radically from biblical teaching The Writings of early Church Fathers portrayed in their historical context show that during the second century theological concepts taught in Platonism were adopted as Christianity struggled to end Roman persecution Emperor Marcus Aurelius a famous Stoic philosopher was putting Christians to death because their belief did not conform to the Hellenized religion of the day The book shows that the early church fathers sought to save their people's lives by redefining the Christian God in Greek terms Their efforts brought metaphysics to Christianity and ushered in concepts like the Trinity After presenting the historical setting in which these philosophical errors were embraced as Christian doctrine the book compares orthodox Christian theology today called classical theism to biblical teachings The book identifies how Greek philosophy has influenced major attributes of God taught in classical theism The book constitutes a major challenge to those who accept the tenants of classical theism but do not know the many aspects of their doctrine that are based on Greek philosophy

**On Space and Time** Shahn Majid, 2012-03-26 This book gets to the heart of science by asking a fundamental question about its essence what is the true nature of space and time Both defy modern physics and scientists find themselves continually searching for answers This unique volume brings together world leaders in cosmology particle physics quantum gravity mathematics philosophy and theology to provide fresh insights into the deep structure of space and time In an attempt to understand the question subjects ranging from dark matter to the philosophical and theological implications of spacetime are covered ensuring that the issue is thoroughly explored Interesting and thought provoking answers provide a well rounded read

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