

QUANTUM THEORY AND THE STRUCTURES OF TIME AND SPACE

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C. F. von Weizsäcker

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Quantum Theory And The Structures Of Space And Time

SJ Ball



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** L. Castell, M. Drieschner, Carl Friedrich Freiherr von Weizsäcker, 1975 **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 **Quantum Theory and the Structures of Time and Space** Lutz Castell, Michael Drieschner, Carl Friedrich von Weizsäcker, 1977 **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 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 **Quantum Space** Jim Baggott, 2018-11-15 Combining clear discussions of both quantum theory and general relativity this book offers one of the

first efforts to explain the new quantum theory of space and time Today we are blessed with two extraordinarily successful theories of physics The first is Albert Einstein's general theory of relativity which describes the large scale behaviour of matter in a curved spacetime This theory is the basis for the standard model of big bang cosmology The discovery of gravitational waves at the LIGO observatory in the US and then Virgo in Italy is only the most recent of this theory's many triumphs The second is quantum mechanics This theory describes the properties and behaviour of matter and radiation at their smallest scales It is the basis for the standard model of particle physics which builds up all the visible constituents of the universe out of collections of quarks electrons and force carrying particles such as photons The discovery of the Higgs boson at CERN in Geneva is only the most recent of this theory's many triumphs But while they are both highly successful these two structures leave a lot of important questions unanswered They are also based on two different interpretations of space and time and are therefore fundamentally incompatible We have two descriptions but as far as we know we've only ever had one universe What we need is a quantum theory of gravity Approaches to formulating such a theory have primarily followed two paths One leads to String Theory which has for long been fashionable and about which much has been written But String Theory has become mired in problems In this book Jim Baggott describes the road less travelled an approach which takes relativity as its starting point and leads to a structure called Loop Quantum Gravity Baggott tells the story through the careers and pioneering work of two of the theory's most prominent contributors Lee Smolin and Carlo Rovelli

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 [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

The Large Scale Structure of Space-Time Stephen W. Hawking, George F. R. Ellis, 2023-02-16 This influential work explores Einstein's General Theory of Relativity and its predictions relating to singularities in space time *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 *Philosophy, Mathematics and Modern Physics* Enno Rudolph, Ion-Olimpiu Stamatescu, 2012-12-06 In recent times a new dialogue has begun between the natural sciences and the humanities This is particularly true of physics and philosophy whose sphere of mutual interest expanded significantly with the advent of quantum mechanics Among other topics the discussion covers the evolution of theories the role of mathematics in the physical sciences the perception and cognition of nature and definitions of space and time In contrast to the custom of the last two centuries mathematics the language of physics is once again finding a respected place in the discourse of

philosophers The interdisciplinary communication between philosophers mathematicians and physicists will be given new impetus by the thoughtful and wide ranging contributions to this book 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 **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

Pascos '94 - Proceedings Of The Fouth 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 *The Structure of Physics* Carl F. von Weizsäcker,2007-01-15 Carl Friedrich von Weizsäcker's *Aufbau der Physik* first published in 1985 was intended as an overview of his lifelong concern an understanding of the unity of physics That is the idea of a quantum theory of binary alternatives the so called ur theory a unified quantum theoretical framework in which spinorial symmetry groups are considered to give rise to the structure of space and time The book saw numerous reprints but it was published in German only The present edition in English provides a newly arranged and revised version in which some original chapters and sections have been deleted and a new chapter about further insights and results of ur theoretic research of the late 1980 s and 1990 s mainly by the work of Thomas G rnitz has been included as well as a general introduction to Weizsäcker's *Philosophy of Physics* Carl Friedrich von Weizsäcker also enjoys high esteem by a much broader audience for his socio cultural political and religious thoughts and writings In him the intercultural and interdisciplinary dialogue has found one of its most important proponents a great thinker who combines the perspectives of science philosophy religion and politics with a view towards the challenges as well as the responsibilities of our time Original title *Aufbau der Physik* Carl Friedrich von Weizsäcker Carl Hanser Verlag München Wien 1985 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 *Carl Friedrich von Weizsäcker: Major Texts in Physics* Michael Drieschner,2014-06-13 This book presents a collection of texts by the German physicist and philosopher Carl Friedrich von Weizsäcker 1912 2007 for use in seminars on the history epistemology and structure of physics Most texts appear in English for the first time Weizsäcker became famous through his works in physics mainly in the early development of nuclear physics Later he would also become well known as a philosopher and analyst of contemporary culture Texts include the original publications of the Weizsäcker Bethe formula of nuclear masses and the Bethe Weizsäcker cycle which explains the source of energy in the sun both were developed by Bethe at the same time and independently of Weizsäcker Further texts deal with Weizsäcker's explanation of the origin of planets his explanation of the time arrow in Statistical Mechanics and his analyses of Quantum Mechanics and the structure of physics in general

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