

D. I. BLOKHINTSEV

**Space and Time
In The Microworld**

Space And Time In The Microworld

Various Authors



Space And Time In The Microworld:

Space and Time in the Microworld D.I. Blokhintsev, 2012-12-06 A way of understanding the laws which govern the world of elementary particles has not been found yet Present day theoretical physicists have to be satisfied with compromises which at the best promise some success at the expense of generality and unity Under these circumstances a critical analysis of the basic concepts of modern quantum theory may be timely and useful It is hoped that the value of such an analysis may be preserved even if in the near future new ways of understanding the basis of elementary particle physics are discovered In this monograph one specific aspect of this analysis is treated namely the problems of geometry in the microworld An outline of geometrical measurements in the macroworld was given previously These measurements seem to be clear enough for at least a certain set of problems to be considered as a starting point for discussing the situation in the microworld The concepts and methods which are useful in the macroworld may only indirectly be carried over into the microworld and they require a high degree of abstraction In comprehending the physical content of dynamic variables which have geometric meaning for example the space time particle coordinates $x y z t$ it is often necessary to have recourse to gedanken experiments which although not feasible in practice can nevertheless be compatible with the basic principles of geometry and quantum mechanics Real Time D. H. Mellor, 1985-03-21 Dr Mellor explores the nature of time and how people express tense is not real

Nonlocal Quantum Field Theory and Stochastic Quantum Mechanics K.H. Namsrai, 2012-12-06 over this stochastic space time leads to the non local fields considered by G V Efimov In other words stochasticity of space time after being averaged on a large scale as a self memory makes the theory nonlocal This allows one to consider in a unified way the effect of stochasticity or nonlocality in all physical processes Moreover the universal character of this hypothesis of space time at small distances enables us to reinterpret the dynamics of stochastic particles and to study some important problems of the theory of stochastic processes such as the relativistic description of diffusion Feynman type processes and the problem of the origin of self turbulence in the motion of free particles within nonlinear stochastic mechanics In this direction our approach Part II may be useful in recent developments of the stochastic interpretation of quantum mechanics and fields due to E Nelson D Kershaw I Fenykes F Guerra de la Pena Auerbach J P Vigier M Davidson and others In particular as shown by N Cufaro Petroni and J P Vigier within the discussed approach a causal action at distance interpretation of a series of experiments by A Aspect and his co workers indicating a possible non locality property of quantum mechanics may also be obtained Aspect's results have recently inspired a great interest in different nonlocal theories and models devoted to an understanding of the implications of this nonlocality This book consists of two parts **The Future of Post-human Space-time** Peter Baofu, 2006 Contrary to the conventional wisdom held by many in much of human history in this book Peter Baofu here proposes what he calls the perspectival theory of space time According to this theory there are multiple perspectives of space and time in society culture the mind and nature all of which are

subject to the regression progression principle in existential dialectics These perspectives exist in society culture the mind and nature with good reasons being subject to the symmetry asymmetry principle in existential dialectics and with some being more successful and hegemonic dominant than others Furthermore and more importantly in the long haul space and time as humans have known them will end and will eventually be altered by post humans in different forms be they here in this universe or in multiverses subject to the change constancy principle in existential dialectics Ephemermon: The Particle of Time (The 1st Book of the FAUSTEF TRILOGY) V. Alexander STEFAN,2002 Badonna an immortal woman code 12 talks to Faustef about the nature of Time Faustef a graduate student in physics is getting ready for the defense of his thesis the next morning His thesis is based on the nature of Time as an infinite continuum Badonna tells him that Time is a corpuscular fluid that the Time Corpuscle is referred to as the ephemeron She tells Faustef about the spherical time matrix the carpet of existence and about the nature of time travel She tells him that Lucifer and she are the first children in creation of QUALB the Giver the Creator of all that there is that Orpheus is a son in birth of QUALB the Giver that Lucifer before his exile was the Master Guardian of the Atlantis Universe our Universe and the 21 Sibling Universes that she is referred to as the Mother of the Atlantis Universe and the 21 Sibling Universes Faustef is disappointed with his thesis decides to withdraw it and write a new one based on the ephemeron concept His new thesis is rejected by the Examination Board as a far fetched idea being more the work of the magus than a physicist Faustef is advised by the Board to resubmit his old version of the thesis which he does and defends it successfully **Routledge Library Editions: Philosophy of Time** Various Authors,2021-03-05 Reissuing five works originally published between 1937 and 1991 this collection contains books addressing the subject of time from a mostly philosophic point of view but also of interest to those in the science and mathematics worlds These texts are brought back into print in this small set of works addressing how we think about time the history of the philosophy of time the measurement of time theories of relativity and discussions of the wider thinking about time and space among other aspects One volume is a thorough bibliography collating references on the subject of time across many disciplines My Passion V. Alexander Stefan,2008 **Space Time Play** Friedrich von Borries,Steffen P. Walz,Matthias Böttger,2007-09-14 Computer and video games are leaving the PC and conquering the arena of everyday life in the form of mobile applications the result is new types of cities and architecture How do these games alter our perception of real and virtual space What can the designers of physical and digital worlds learn from one another *The Study of Time IV* J. T. Fraser,N. Lawrence,D. Park,2012-12-06 *Master of Space and Time* Rudy Rucker,2024-09-24 The real world is unbearable to madcap inventor Harry Gerber so he uses his genius to twist the laws of science and create his own tailor made universe Master of Space and Time combines high physics and high jinks blurring the line between science and magic From a voyage to a mirror image world where sluglike parasites make slaves of humanity to trees and bushes that grow fries and pork chops to a rain of fish author Rudy Rucker two time winner of the Philip K Dick Award takes readers on the ultimate joyride But once the gluons at

the core of Harry's creation run out disaster looms for Harry and his friends

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