

Space - Time - Matter
Modern Kaluza-Klein Theory

Einstein endorsed the view of Kaluza that gravity could be combined with electromagnetism if the dimensionality of the world is extended from 4 to 5. Klein applied this idea to quantum theory, laying a basis for the various modern versions of string theory. Recently, work by a group of researchers has resulted in a coherent formulation of 5D relativity, in which matter in 4D is induced by geometry in 5D. This theory is based on an unrestricted group of 5D coordinate transformations that leads to new relations and agreement with the classical tests of relativity. This book collects together the main technical results on 5D relativity, and shows how far we can realize Einstein's vision of physics as geometry.

The material in this book is diverse. It is largely concerned with higher-dimensional gravity, touches on particle physics, and looks for applications to astrophysics and cosmology. The book should be of interest to students and researchers in all these fields.



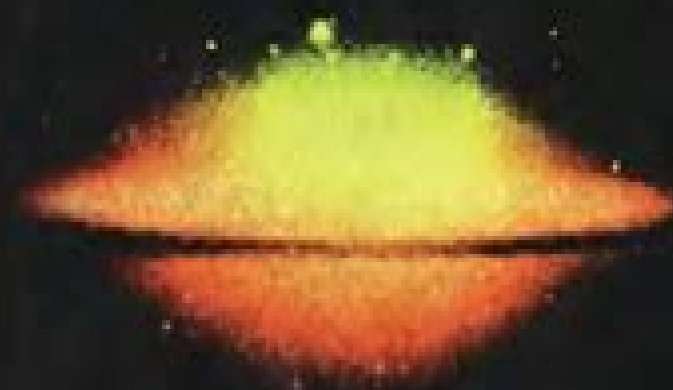
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Space-time-matter Paul S. Wesson, 2007 Albert Einstein together with Theodor Kaluza and Oskar Klein realized that extra dimensions can be used to unify the different fields of physics as well as unifying the fields with their material sources In fact it was Einstein's dream to transpose the a base wooda of the matter term in his field equations to the marble of the geometrical term During his lifetime this kind of unified theory achieved only partial success But the modern approach outlined in this bestseller is elegant and agrees with all the classical tests The basic idea is to unify the source and its field using the rich algebra of higher dimensional Riemannian geometry In other words space time and matter become parts of geometry

Space, Time, Matter Hermann Weyl, 1952-01-01 The standard treatise on the general theory of relativity Nature Whatever the future may bring Professor Weyl's book will remain a classic of physics British Journal for Philosophy and Science Reflecting the revolution in scientific and philosophic thought which accompanied the Einstein relativity theories Dr Weyl has probed deeply into the notions of space time and matter A rigorous examination of the state of our knowledge of the world following these developments is undertaken with this guiding principle that although further scientific thought may take us far beyond our present conception of the world we may never again return to the previous narrow and restricted scheme Although a degree of mathematical sophistication is presupposed Dr Weyl develops all the tensor calculus necessary to his exposition He then proceeds to an analysis of the concept of Euclidean space and the spatial conceptions of Riemann From this the nature of the amalgamation of space and time is derived This leads to an exposition and examination of Einstein's general theory of relativity and the concomitant theory of gravitation A detailed investigation follows devoted to gravitational waves a rigorous solution of the problem of one body laws of conservation and the energy of gravitation Dr Weyl's introduction of the concept of tensor density as a magnitude of quantity contrasted with tensors which are considered to be magnitudes of intensity is a major step toward a clearer understanding of the relationships among space time and matter

Relativity: Modern Large-scale Spacetime Structure Of The Cosmos Moshe Carmeli, 2008-12-04 This book describes Carmeli's cosmological general and special relativity theory along with Einstein's general and special relativity These theories are discussed in the context of Moshe Carmeli's original research in which velocity is introduced as an additional independent dimension Four and five dimensional spaces are considered and the five dimensional braneworld theory is

presented The Tully Fisher law is obtained directly from the theory and thus it is found that there is no necessity to assume the existence of dark matter in the halo of galaxies nor in galaxy clusters The book gives the derivation of the Lorentz transformation which is used in both Einstein s special relativity and Carmeli s cosmological special relativity theory The text also provides the mathematical theory of curved space time geometry which is necessary to describe both Einstein s general relativity and Carmeli s cosmological general relativity A comparison between the dynamical and kinematic aspects of the expansion of the universe is made Comparison is also made between the Friedmann Robertson Walker theory and the Carmeli theory And neither is it necessary to assume the existence of dark matter to correctly describe the expansion of the cosmos Space-time-matter Paul S. Wesson,2007 **Deformed Spacetime** Fabio Cardone,Roberto Mignani,2007-09-04 This volume provides a detailed discussion of the mathematical aspects and physical applications of a new geometrical structure of space time based on a generalization deformation of the usual Minkowski space as supposed to be endowed with a metric whose coefficients depend on the energy This new five dimensional scheme Deformed Relativity in Five Dimensions DR5 represents a true generalization of the usual Kaluza Klein KK formalism Artificial Intelligence Models for the Dark Universe Ariel Fernández,2024-08-20 The dark universe contains matter and energy unidentifiable with current physical models accounting for 95% of all the matter and energetic equivalent in the universe The enormous surplus brings up daunting enigmas such as the cosmological constant problem and the apparent distortions in the dynamics of deep space and so coming to grips with the invisible universe has become a scientific imperative This book addresses this need reckoning that no cogent physical model of the dark universe can be implemented without first addressing the metaphysical hurdles along the way The foremost problem is identifying the topology of the universe which as argued in the book is highly relevant to unveil the secrets of the dark universe Artificial Intelligence AI is a valuable tool in this effort since it can reconcile conflicting data from deep space with the extant laws of physics by building models to decipher the dark universe This book explores the applications of AI and how it can be used to embark on a metaphysical quest to identify the topology of the universe as a prerequisite to implement a physical model of the dark sector that enables a meaningful extrapolation into the visible sector The book is intended for a broad readership but a background in college level physics and computer science is essential The book will be a valuable guide for graduate students as well as researchers in physics astrophysics and computer science focusing on AI applications to elucidate the nature of the dark universe Key Features Provides readers with an intellectual toolbox to understand physical arguments on dark matter and energy Up to date with the latest cutting edge research Authored by an expert on artificial intelligence and mathematical physics **Querying Artificial Intelligence on the Dark Universe in a Quintessential Encoding of Space-time** Ariel Fernández,2023-08-30 This book explores the possibility of the use of artificial intelligence AI to solve one of the cosmos biggest mysteries the nature of undetectable forms of matter namely dark matter and dark energy which make up 95% of the universe The book describes the outcome of this

quest in terms of an entangled universe that admits no observer and incorporates an extra dimension to encode space time as a latent manifold A cosmic engine fueled by dark energy that maintains the topology of the universe during its expansion involving autocatalytic vacuum creation is identified The physical picture of the cosmos presented in the book paves the way for a solution to the cosmological constant problem and provides a cogent explanation for the huge gap between the predicted and measured values that has troubled physicists for decades

A Panorama of Mathematics: Pure and Applied Carlos M. da Fonseca, Dinh Van Huynh, Steve Kirkland, Vu Kim Tuan, 2016-02-26 This volume contains the proceedings of the Conference on Mathematics and its Applications 2014 held from November 14 17 2014 at Kuwait University Safat Kuwait Papers contained in this volume cover various topics in pure and applied mathematics ranging from an introductory study of quotients and homomorphisms of C systems also known as contextual pre categories to the most important consequences of the so called Fokas method Also covered are multidisciplinary topics such as new structural and spectral matricial results acousto electromagnetic tomography method a recent hybrid imaging technique some numerical aspects of sonic boom minimization PDE eigenvalue problems von Neumann entropy in graph theory the relative entropy method for hyperbolic systems conductances on grids inverse problems in magnetohydrodynamics location and size estimation of small rigid bodies using elastic far fields and the space time fractional Schrödinger equation just to cite a few Papers contained in this volume cover various topics in pure and applied mathematics ranging from an introductory study of quotients and homomorphisms of C systems also known as contextual pre categories to the most important consequences of the so called Fokas method Also covered are multidisciplinary topics such as new structural and spectral matricial results acousto electromagnetic tomography method a recent hybrid imaging technique some numerical aspects of sonic boom minimization PDE eigenvalue problems von Neumann entropy in graph theory the relative entropy method for hyperbolic systems conductances on grids inverse problems in magnetohydrodynamics location and size estimation of small rigid bodies using elastic far fields and the space time fractional Schrödinger equation just to cite a few See more at <http://s350148651.preview.tizrapublisher.com/conm658sthash74nRhV3ydpuf> This volume contains the proceedings of the Conference on Mathematics and its Applications 2014 held from November 14 17 2014 at Kuwait University Safat Kuwait See more at <http://s350148651.preview.tizrapublisher.com/conm658sthash74nRhV3ydpuf>

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Gravitation, Cosmology Valeri V. Dvoeglazov, Augusto A. Espinoza Garrido, 2004 This volume consists of 14 papers The

editors are well known experts in the problems of modern physics R Yamaleev J Kocinski and M Wierzbicki R K hne J Garecki S Tiwari R Amoroso and J P Vigier A Camacho S Ghosh L Horwitz and O Oron G j Ni I Eganova R Kiehn R Cahill are among the authors New developments in the well established theories Kaluza Klein 5 dimensional theories torsion the Weyl unified theory quantum foam space time non commutativity negative mass paradox in the neutrino physics etc **A Primer in Black Holes, Mach's Principle and Gravitational Energy** Marcelo Samuel Berman,2008 Physics Letters ,2000

General physics atomic physics molecular physics and solid state physics *Five-dimensional Physics* Paul S. Wesson,2006

Extra dimensions beyond space and time are the best methods for unifying gravity with particle physics The basic extension is to five dimensions 5D as in the induced matter and membrane theory This descriptive text gives an up to date account of the classical and quantum consequences of 5D physics It includes topics that range from Einstein s original theory of relativity to modern views on matter The book is mathematically precise and focuses on new ideas which appeal to readers Examples of new ideas are The big bang universe which is curved by matter in 4D may be viewed as a smooth and empty world in 5D the uncertainty of quantum interactions in spacetime may be regarded as the consequence of deterministic laws in higher dimensions This book will interest people who think about the meaning of things *Recent Advances in Theoretical Physics* R. Ramachandran,1985 **Proceedings of the Sixth Alexander Friedmann International Seminar on Gravitation and Cosmology** Vladimir Mikhaïlovich Mostepanenko,2005 *Space Technology and Applications International Forum - STAIF 2008* Mohamed S. El-Genk,2008-01-31

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