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TOPOLOGICAL GEOMETRODYNAMICS: AN OVERVIEW

Matti Pitkänen

Bentham  Books

Topological Geometrodynamics

Florentin Smarandache, V. Christianto



Topological Geometrodynamics:

Topological Geometrodynamics Matti Pitkanen, 2006-05 Topological Geometrodynamics is a modification of general relativity inspired by the conceptual problems related to the definitions of inertial and gravitational energy in general relativity Topological geometrodynamics can be also seen as a generalization of super string models Physical space times are seen as four dimensional surfaces in certain eight dimensional space The choice of this space is fixed by symmetries of the standard model so that geometrization of known classical fields and elementary particle quantum numbers results The notion of many sheeted space time allows re interpretation of the structures of perceived world in terms of macroscopic space time topology The generalization of the number concept based on fusion of real numbers and p adic number fields implies a further generalization of the space time concept allowing to identify space time correlates of cognition and intentionality Quantum measurement theory extended to a quantum theory of consciousness becomes an organic part of theory A highly non trivial prediction is the existence of a fractal hierarchy of copies of standard model physics with dark matter identified in terms of macroscopic quantum phases characterized by dynamical and quantized Planck constant The book is a comprehensive overview and analysis of topological geometrodynamics as a mathematical and physical theory

Topological Geometrodynamics Matti Pitkänen, 1990

Topological Geometrodynamics Matti Pitkänen, 1984

Geometrodynamics of Gauge Fields Eckehard W. Mielke, 2017-01-22 This monograph aims to provide a unified geometrical foundation of gauge theories of elementary particle physics The underlying geometrical structure is unfolded in a coordinate free manner via the modern mathematical notions of fibre bundles and exterior forms Topics such as the dynamics of Yang Mills theories instanton solutions and topological invariants are included By transferring these concepts to local space time symmetries generalizations of Einstein's theory of gravity arise in a Riemann Cartan space with curvature and torsion It provides the framework in which the broken Poincaré gauge theory the Rainich geometrization of the Einstein Maxwell system and higher dimensional non abelian Kaluza Klein theories are developed Since the discovery of the Higgs boson concepts of spontaneous symmetry breaking in gravity have come again into focus and in this revised edition these will be exposed in geometric terms Quantizing gravity remains an open issue formulating it as a de Sitter type gauge theory in the spirit of Yang Mills some new progress in its topological form is presented After symmetry breaking Einstein's standard general relativity with cosmological constant emerges as a classical background The geometrical structure of BRST quantization with non propagating topological ghosts is developed in some detail

The Physical Nature of Consciousness Philip R. Van Looke, 2001-01-01 The Physical Nature of Consciousness contains twelve chapters that discuss recent and new perspectives on the relation between modern physics and consciousness Stuart Hameroff opens with an extended and updated exposition of the Penrose Hameroff Orch OR model and subsequently addresses recent criticisms of quantum approaches to the brain Evan Walker presents his view on consciousness from the perspective of a new approach to

the integration of quantum theory and relativity Friedrich Beck elaborates on the Beck Eccles quantum approach to consciousness Karl Pribram puts the holographic view on consciousness in perspective of his life long work Peter Marcer and Edgar Mitchell explain the relevance of quantum holography for consciousness Gordon Globus discusses the relation between postmodern philosophical theories and quantum consciousness Chris Clarke develops a theory in terms of a specific type of formal logic to reconcile the phenomenology of consciousness with the physical world Ilya Prigogine summarizes his view on complexity and on the future of quantum theory which goes beyond the present formalism and goes on to comment on the problem of consciousness Matti Pitkanen identifies the place for consciousness in a unifying topological geometrodynamics theory Colin McGinn argues against classical materialism Dick Bierman gives an overview of anomalous phenomena He identifies a decline effect and discusses different possible interpretations Philip Van Loocke closes the volume with a discussion on how deep teleology in cellular systems may relate to consciousness Series A

The Worldwide List of Alternative Theories and Critics

Jean de Climont, 2020-11-01 This Worldwide List of Alternative Theories and Critics only available in english language includes scientists involved in scientific fields The 2023 issue of this directory includes the scientists found in the Internet The scientists of the directory are only those involved in physics natural philosophy The list includes 9700 names of scientists doctors or diploma engineers for more than 70% Their position is shortly presented together with their proposed alternative theory when applicable There are nearly 3500 authors of such theories all amazingly very different from one another The main categories of theories are presented in an other book of Jean de Climont THE ALTERNATIVE THEORIES New Trends and Advanced Methods in Interdisciplinary Mathematical Sciences Bourama Toni, 2017-07-05 The latest of five multidisciplinary volumes this book spans the STEAM H Science Technology Engineering Agriculture Mathematics and Health disciplines with the intent to generate meaningful interdisciplinary interaction and student interest Emphasis is placed on important methods and applications within and beyond each field Topics include geometric triple systems image segmentation pattern recognition in medicine pricing barrier options p adic numbers distribution in geophysics data pattern adelic physics and evolutionary game theory Contributions were by invitation only and peer reviewed Each chapter is reasonably self contained and pedagogically presented for a multidisciplinary readership

Quantization in Astrophysics, Brownian Motion, and Supersymmetry Florentin Smarandache, V. Christianto, 2007

Topological Geometrodynamics Matti Pitkänen, 1984

Hadron models and related New Energy issues

Florentin Smarandache, V. Christianto, 2007-01-01 The present book covers a wide range of issues from alternative hadron models to their likely implications to New Energy research including alternative interpretation of low energy reaction coldfusion phenomena The authors explored some new approaches to describe novel phenomena in particle physics M Pitkanen introduces his nuclear string hypothesis derived from his Topological Geometrodynamics theory while E Goldfain discusses a number of nonlinear dynamics methods including bifurcation pattern formation complex Ginzburg Landau equation to

describe elementary particle masses Fu Yuhua discusses a plausible method for prediction of phenomena related to New Energy development F Smarandache discusses his unmatter hypothesis and A Yefremov et al discuss Yang Mills field from Quaternion Space Geometry Diego Rapoport discusses link between Torsion fields and Hadronic Mechanic A H Phillips discusses semiconductor nanodevices while V and A Boju discuss Digital Discrete and Combinatorial methods and their likely implications to New Energy research Pavel Pintr et al describe planetary orbit distance from modified Schrodinger equation and M Pereira discusses his new Hypergeometrical description of Standard Model of elementary particles The present volume will be suitable for researchers interested in New Energy issues in particular their link with alternative hadron models and interpretation While some of these discussions may be found a bit too theoretical our view is that once these phenomena can be put into rigorous theoretical framework thereafter more open minded physicists may be more ready to consider these New Energy methods more seriously Our basic proposition in the present book is that considering these new theoretical insights one can expect there are new methods to generate New Energy technologies which are clearly within reach of human knowledge in the coming years

Unified Theories , Prespacetime Journal Volume 5 Issue 4 Quantum Dream Inc.,Quantum Dream Inc,2014-04-11 Prespacetime Journal PSTJ <http://www.prespacetime.com> is a publication in which physicists mathematicians and other learned scholars publish their research results and express their views on the origin nature and mechanism of spacetime and its possible connection to a prespacetime It is also a journal where all learned scholars can present their models and experimental results on elemental particles fundamental forces including gravity and related topics This is PSTJ Volume 5 Issue 4 first published in April 2014 It is a Focus Issue entitled Progress in Topological Geometro-dynamics TGD featuring Matti Pitkanen s latest work contains following articles 1 Interpretation of BICEP2 Results in TGD based Cosmology 2 Negentropic Entanglement NMP Braiding 3 General Ideas about Octonions Quaternions and Twistors and 4 Recent View about Kahler Geometry and Spinor Structure of WCW

Acorns: Windows High-Tide Foghat Joshua Morris,2013-01-23 Acorns delineates the future of humanity as a reunification of intellect with the Deep Self Having chosen to focus upon ego established securely by the time of Christ much more beta brain wave development will destroy our species and others which process has already begun We create our own realities through beliefs intents and desires and we were in and out of probabilities constantly Feelings follow beliefs not the other way around

Inner Paths to Outer Space Rick Strassman,Slawek Wojtowicz,Luis Eduardo Luna,Ede Frecska,2008-03-27 An investigation into experiences of other realms of existence and contact with otherworldly beings Examines how contact with alien life forms can be obtained through the inner space dimensions of our minds Presents evidence that other worlds experienced through consciousness altering technologies are often as real as those perceived with our five senses Correlates science fiction s imaginal realms with psychedelic research For thousands of years voyagers of inner space spiritual seekers shamans and psychoactive drug users have returned from their inner imaginal travels reporting encounters with alien intelligences Inner Paths to Outer Space

presents an innovative examination of how we can reach these other dimensions of existence and contact otherworldly beings Based on their more than 60 combined years of research into the function of the brain the authors reveal how psychoactive substances such as DMT allow the brain to bypass our five basic senses to unlock a multidimensional realm of existence where otherworldly communication occurs They contend that our centuries old search for alien life forms has been misdirected and that the alien worlds reflected in visionary science fiction actually mirror the inner space world of our minds The authors show that these alien worlds encountered through altered states of human awareness either through the use of psychedelics or other methods possess a sense of reality as great as or greater than those of the ordinary awareness perceived by our five senses

Topological Geometrodynamics Matti Pitkänen,1984 Topological Geometrodynamics Matti Pitkänen,1984 *Annalen der Physik* ,1989 **Topological Geometrodynamics and P-adic Numbers** Matti Pitkänen,1995 *High Energy Physics Index* ,1990 Prespacetime Journal Volume 2 Issue 10 Quantum Dream Inc.,Quantum Dream Inc,2011-10-04 Prespacetime Journal PSTJ [http www prespacetime com](http://www.prespacetime.com) is a publication in which physicists mathematicians and other learned scholars publish their research results and express their views on the origin nature and mechanism of spacetime and its possible connection to a prespacetime It is also a journal where all learned scholars can present their models and experimental results on elemental particles fundamental forces including gravity and related topics This is PSTJ Volume 2 Issue 10 first published in October 2011 It is entitled Topological Geometrodynamics from Particle Physics Perspective It is a focus issue on Matti Pitkanen s Work edited by Dainis Zeps Ph D and contains following articles 1 On Matti Pitkanen s Topological Geometrodynamics from Particle Physics Perspective 2 Overall View about TGD from Particle Physics Perspective 3 New Particle Physics Predicted by TGD Part I 4 New Particle Physics Predicted by TGD Part II and 5 Particle Massivation in TGD Universe

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