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Geometry and Theoretical Physics



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Geometry and Theoretical Physics Joachim Debrus, Allen C. Hirshfeld, 2012-12-06 The interaction between geometry and theoretical physics has often been very fruitful A highlight in this century was Einstein's creation of the theory of general relativity Equally impressive was the recognition starting from the work of Yang and Mills and culminating in the Weinberg Salam theory of the electroweak interaction and quantum chromodynamics that the fundamental interactions of elementary particles are governed by gauge fields which in mathematical terms are connections in principal fibre bundles Theoretical physicists became increasingly aware of the fact that the use of modern mathematical methods may be necessary in the treatment of problems of physical interest Since some of these topics are covered at most summarily in the usual curriculum there is a need for extra curricular efforts to provide an opportunity for learning these techniques and their physical applications In this context we arranged a meeting at the Physikzentrum Bad Ronneburg 12-16 February 1990 on the subject Geometry and Theoretical Physics in the series of physics schools organized by the German Physical Society The participants were graduate students from German universities and research institutes Since the meeting occurred only a short time after freedom of travel between East and West Germany became a reality this was for many from the East the first opportunity to attend a scientific meeting in the West and for many from the West the first chance to become personally acquainted with colleagues from the East

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

Gravity, Particles and Space-time Petr Ivanovich Pronin, Gennadiy Aleksandrovich Sardanashvili, 1996 This volume comprises original and review articles on the frontier problems of the gravitation theory theoretical and mathematical physics The volume is dedicated to the memory of Professor Dmitri Ivanenko who made the great contribution to the physical science of the twentieth century

Computer Algebra In Science And Engineering J Fleischer, J Grabmeier, Friedrich W Hehl, W Kuchlin, 1995-08-31

Systems and tools of computer algebra Like AXIOM Derive FORM Mathematica Maple Mupad REDUCE Macsyma let us manipulate extremely complex algebraic formulae symbolically on a computer Contrary to numerics these computations are exact and there is no loss of accuracy After decades of research and development these tools are now becoming as indispensable in Science and Engineering as traditional number crunching already is The ZiF 94 workshop is amongst the first devoted specifically to applications of computer algebra CA in Science and Engineering The book documents the state of the art in this area and serves as an important reference for future work Quantum Geometry Margaret Prugovecki, 2013-03-14 This monograph presents a review and analysis of the main mathematical physical and epistemological difficulties encountered at the foundational level by all the conventional formulations of relativistic quantum theories ranging from relativistic quantum mechanics and quantum field theory in Minkowski space to the various canonical and covariant approaches to quantum gravity It is however primarily devoted to the systematic presentation of a quantum framework meant to deal effectively with these difficulties by reconsidering the foundations of these subjects analyzing their epistemic nature and then developing mathematical tools which are specifically designed for the elimination of all the basic inconsistencies A carefully documented historical survey is included and additional extensive notes containing quotations from original sources are incorporated at the end of each chapter so that the reader will be brought up to date with the very latest developments in quantum field theory in curved spacetime quantum gravity and quantum cosmology The survey further provides a backdrop against which the new foundational and mathematical ideas of the present approach to these subjects can be brought out in sharper relief Foundations of Classical Electrodynamics Friedrich W Hehl, Yuri N. Obukhov, 2012-12-06 In this book we display the fundamental structure underlying classical electrodynamics i e the phenomenological theory of electric and magnetic effects The book can be used as a textbook for an advanced course in theoretical electrodynamics for physics and mathematics students and perhaps for some highly motivated electrical engineering students We expect from our readers that they know elementary electrodynamics in the conventional 1 3 dimensional form including Maxwell's equations More over they should be familiar with linear algebra and elementary analysis including vector analysis Some knowledge of differential geometry would help Our approach rests on the metric free integral formulation of the conservation laws of electrodynamics in the tradition of F Kottler 1922 E Cartan 1923 and D van Dantzig 1934 and we stress in particular the axiomatic point of view In this manner we are led to an understanding of why the Maxwell equations have their specific form We hope that our book can be seen in the classical tradition of the book by E J Post 1962 on the Formal Structure of Electromagnetism and of the chapter Charge and Magnetic Flux of the encyclopedia article on classical field theories by C Truesdell and R A Toupin 1960 including R A Toupin's Bressanone lectures 1965 for the exact references see the end of the introduction on page 11 *Computer Simulation and Computer Algebra* Dietrich Stauffer, Friedrich W Hehl, Nobuyasu Ito, Volker Winkelmann, John G. Zabolitzky, 2012-12-06 Computer

Simulation and Computer Algebra Starting from simple examples in classical mechanics these introductory lectures proceed to simulations in statistical physics using FORTRAN and then explain in detail the use of computer algebra by means of Reduce This third edition takes into account the most recent version of Reduce 3.4.1 and updates the description of large scale simulations to subjects such as the 170000×170000 Ising model Furthermore an introduction to both vector and parallel computing is given

Developments in Mathematical and Experimental Physics Alfredo Macias, Francisco Uribe, Enrique Diaz, 2002-08-31 The first part is devoted to the topic of quantum gravity and string theories mainly concerned with recent authoritative results in the study of discretizations in classical and quantum general relativity non commutative theories of gravity 2+1 dimensional supergravity and Berezin description of Kaehler quotients The field to particle transition problem is also considered The second part deals with cosmology and black holes Here cosmological inflationary and braneworld scenarios are investigated Moreover some scalar field models for the dark matter content of the universe as well as new models of protostellar collapse and fragmentation are presented This part includes also a study of de Sitter Anti de Sitter phase transition for black holes an understanding of hairy black holes and an improvement of the no hair theorem proof for the Proca field The third part is devoted to exact solutions in particular classical and quantum cosmological solutions in scalar tensor theories Additionally a discussion about conformally flat axisymmetric spacetimes and some considerations on accelerated expansion in scalar tensor theories are presented Experimental and some mixed topics are included in the final part Among them is an experimental foundation of nonlocality and superluminal signal velocity in photonic tunneling a proposal for testing the weak equivalence principle for charged particles in space Moreover a possible new type of skewon field linked to Maxwell theory is also presented and an authoritative discussion at the interface of quantum and gravitational realms

Principles of Quantum General Relativity Eduard Prugovečki, 1995 This monograph explains and analyzes the principles of a quantum geometric framework for the unification of general relativity and quantum theory By taking advantage of recent advances in areas like fibre and superfibre bundle theory Krein spaces gauge fields and groups coherent states etc these principles can be consistently incorporated into a framework that can justifiably be said to provide the foundations for a quantum extrapolation of general relativity This volume aims to present this approach in a way which places as much emphasis on fundamental physical ideas as on their precise mathematical implementation References are also made to the ideas of Einstein Bohr Born Dirac Heisenberg and others in order to set the work presented here in an appropriate historical context

Quantum Gravity - Proceedings Of The International School Of Cosmology And Gravitation Xiv Course Venzo De Sabbata, P G Bergmann, H J Treder, 1996-09-03 This volume contains the Proceedings of Quantum Gravity a series of qualified lectures of most outstanding scientists given during the XIV Course of the International School of Cosmology and Gravitation As usual of that School the Course was conceived for researchers at different levels of scientific maturity ranging from post doctorate research students to well established research workers then in every lecture you can

find an introduction where a review and analysis of the main mathematical physical and epistemological difficulties encountered at the formulations of relativistic quantum theories are expounded ranging from relativistic quantum mechanics and quantum field theory in Minkowski and in curved space time to the various canonical and covariant approaches to quantum gravity

Black Holes: Theory and Observation Friedrich W. Hehl, Claus Kiefer, Ralph J.K. Metzler, 1998-11-26 This book addresses graduate students in the first place and is meant as a modern compendium to the existing texts on black hole astrophysics The authors present in pedagogically written articles our present knowledge on black holes covering mathematical models including numerical aspects and physics and astronomical observations as well In addition in their write up of a panel discussion the participants of the school address the existence of black holes consenting that it has by now been verified with certainty

Quantum Gravity Claus Kiefer, 2012-04-05 Quantum theory and Einstein's theory of relativity are at the centre of modern theoretical physics yet the consistent unification of both theories is still elusive This book offers an up to date introduction into the attempts to construct a unified theory of quantum gravity

Thirteenth Marcel Grossmann Meeting, The: On Recent Developments In Theoretical And Experimental General Relativity, Astrophysics And Relativistic Field Theories - Proceedings Of The Mg13 Meeting On General Relativity (In 3 Volumes) Remo Ruffini, Kjell Rosquist, Robert T Jantzen, 2015-01-26 The Marcel Grossmann Meetings seek to further the development of the foundations and applications of Einstein's general relativity by promoting theoretical understanding in the relevant fields of physics mathematics astronomy and astrophysics and to direct future technological observational and experimental efforts The meetings discuss recent developments in classical and quantum aspects of gravity and in cosmology and relativistic astrophysics with major emphasis on mathematical foundations and physical predictions having the main objective of gathering scientists from diverse backgrounds for deepening our understanding of spacetime structure and reviewing the current state of the art in the theory observations and experiments pertinent to relativistic gravitation The range of topics is broad going from the more abstract classical theory quantum gravity branes and strings to more concrete relativistic astrophysics observations and modeling The three volumes of the proceedings of MG13 give a broad view of all aspects of gravitational physics and astrophysics from mathematical issues to recent observations and experiments The scientific program of the meeting included 33 morning plenary talks during 6 days and 75 parallel sessions over 4 afternoons Volume A contains plenary and review talks ranging from the mathematical foundations of classical and quantum gravitational theories including recent developments in string brane theories to precision tests of general relativity including progress towards the detection of gravitational waves and from supernova cosmology to relativistic astrophysics including such topics as gamma ray bursts black hole physics both in our galaxy and in active galactic nuclei in other galaxies and neutron star and pulsar astrophysics Volumes B and C include parallel sessions which touch on dark matter neutrinos X ray sources astrophysical black holes neutron stars binary systems radiative transfer accretion disks quasars gamma ray bursts supernovas alternative

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Systems and Symmetries Faqir Chand Khanna, Université de Montréal. Centre de recherches mathématiques, Luc Vinet, 1997
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 Jürgen Ehlers, G. Schäfer, 1992-12-14 Proceedings of the 81 WE Heraeus Seminar Held at the Physikzentrum Bad Honnef
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