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Pseudo-Complex General Relativity



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Pseudo Complex General Relativity Interdisciplinary Science

Walter Greiner



Pseudo Complex General Relativity Interdisciplinary Science:

Pseudo-Complex General Relativity Peter O. Hess, Mirko Schäfer, Walter Greiner, 2015-10-31 This book explores the role of singularities in general relativity GR The theory predicts that when a sufficient large mass collapses no known force is able to stop it until all mass is concentrated at a point The question arises whether an acceptable physical theory should have a singularity not even a coordinate singularity The appearance of a singularity shows the limitations of the theory In GR this limitation is the strong gravitational force acting near and at a super massive concentration of a central mass First a historical overview is given on former attempts to extend GR which includes Einstein himself all with distinct motivations It will be shown that the only possible algebraic extension is to introduce pseudo complex pc coordinates otherwise for weak gravitational fields non physical ghost solutions appear Thus the need to use pc variables We will see that the theory contains a minimal length with important consequences After that the pc GR is formulated and compared to the former attempts A new variational principle is introduced which requires in the Einstein equations an additional contribution Alternatively the standard variational principle can be applied but one has to introduce a constraint with the same former results The additional contribution will be associated to vacuum fluctuation whose dependence on the radial distance can be approximately obtained using semi classical Quantum Mechanics The main point is that pc GR predicts that mass not only curves the space but also changes the vacuum structure of the space itself In the following chapters the minimal length will be set to zero due to its smallness Nevertheless the pc GR will keep a remnant of the pc description namely that the appearance of a term which we may call dark energy is inevitable The first application will be discussed in chapter 3 namely solutions of central mass distributions For a non rotating massive object it is the pc Schwarzschild solution for a rotating massive object the pc Kerr solution and for a charged massive object it will be the Reissner Nordström solution This chapter serves to become familiar on how to resolve problems in pc GR and on how to interpret the results One of the main consequences is that we can eliminate the event horizon and thus there will be no black holes The huge massive objects in the center of nearly any galaxy and the so called galactic black holes are within pc GR still there but with the absence of an event horizon Chapter 4 gives another application of the theory namely the Robertson Walker solution which we use to model different outcomes of the evolution of the universe Finally the capability of this theory to predict new phenomena is illustrated

Exciting Interdisciplinary Physics Walter Greiner, 2014-07-08 Nuclear physics is an exciting broadly faceted field It spans a wide range of topics reaching from nuclear structure physics to high energy physics astrophysics and medical physics heavy ion tumor therapy New developments are presented in this volume and the status of research is reviewed A major focus is put on nuclear structure physics dealing with superheavy elements and with various forms of exotic nuclei strange nuclei very neutron rich nuclei nuclei of antimatter Also quantum electrodynamics of strong fields is addressed which is linked to the occurrence of giant nuclear systems in e g U U collisions At high energies nuclear physics joins with

elementary particle physics Various chapters address the theory of elementary matter at high densities and temperature in particular the quark gluon plasma which is predicted by quantum chromodynamics QCD to occur in high energy heavy ion collisions In the field of nuclear astrophysics the properties of neutron stars and quark stars are discussed A topic which transcends nuclear physics is discussed in two chapters The proposed pseudo complex extension of Einstein's General Relativity leads to the prediction that there are no black holes and that big bang cosmology has to be revised Finally the interdisciplinary nature of this volume is further accentuated by chapters on protein folding and on magnetoreception in birds and many other animals

Discoveries at the Frontiers of Science Johannes Kirsch, Stefan Schramm, Jan Steinheimer-Froschauer, Horst Stöcker, 2020-03-16 With contributions by leading theoreticians this book presents the discoveries of hitherto hidden connections between seemingly unrelated fields of fundamental physics The topics range from cosmology and astrophysics to nuclear particle and heavy ion science A current example concerns the sensitivity of gravitational wave spectra to the phase structure of dense nuclear and quark matter in binary neutron star collisions The contributions by Hanauske and Stoecker as well as Banik and Bandyopadhyay relate the consequent insights to hot dense nuclear matter created in supernova explosions and in high energy heavy ion collisions Studies of the equation of state for neutron stars are also presented as are those for nuclear matter in high energy heavy ion collisions Other reviews focus on QCD thermodynamics charmed mesons in the quark gluon plasma nuclear theory extensions to the standard general theory of relativity new experimental developments in heavy ion collisions and renewable energy networks The book will appeal to advanced students and researchers seeking a broad view of current challenges in theoretical physics and their interconnections

Nuclear Physics: Present and Future Walter Greiner, 2014-09-17 State of the art survey by leading experts in the field Major foci are superheavy nuclei and neutron rich exotic nuclei In addition new developments in nuclear fission and nuclear cluster decay are shown Finally developments in relativistic heavy ion collisions and the physics of supercritical fields are detailed

Walter Greiner Memorial Volume Peter Otto Hess, Horst Stöcker, 2018-04-11 Walter Greiner 1935-2016 was a German physicist of the Goethe University Frankfurt well known for his many contributions in scientific research and developments in particular the field of nuclear physics He was a well respected science leader and a teacher who had supervised batches of young collaborators and students many of whom are now leaders in both academics and industry worldwide Greiner had a wide interest of science which covered atomic physics heavy ion physics and nuclear astrophysics Greiner co founded GSI the Helmholtz Centre for Heavy Ion Research and the multi disciplinary research center FIAS Frankfurt Institute for Advanced Studies Besides numerous professorship with universities worldwide including the University of Maryland Greiner received many prestigious prizes in honor of his outstanding contributions among others are the Otto Hahn Prize and the Max Born Prize This memorial volume is a special tribute by Greiner's former colleagues students and friends honoring his contributions and passion in science The volume begins with a writing by Greiner about his

early days in science The subsequent articles comprising personal and scientific reminiscences of Walter Greiner serve as timely reviews on various topics of current interest

New Horizons in Fundamental Physics Stefan Schramm, Mirko Schäfer, 2016-11-11 This volume presents the state of the art in selected topics across modern nuclear physics covering fields of central importance to research and illustrating their connection to many different areas of physics It describes recent progress in the study of superheavy and exotic nuclei which is pushing our knowledge to ever heavier elements and neutron richer isotopes Extending nuclear physics to systems that are many times denser than even the core of an atomic nucleus one enters the realm of the physics of neutron stars and possibly quark stars a topic that is intensively investigated with many ground based and outer space research missions as well as numerous theoretical works By colliding two nuclei at very high ultra relativistic energies one can create a fireball of extremely hot matter reminiscent of the universe very shortly after the big bang leading to a phase of melted hadrons and free quarks and gluons the so called quark gluon plasma These studies tie up with effects of crucial importance in other fields During the collision of heavy ions electric fields of extreme strength are produced potentially destabilizing the vacuum of the atomic physics system subsequently leading to the decay of the vacuum state and the emission of positrons In neutron stars the ultra dense matter might support extremely high magnetic fields far beyond anything that can be produced in the laboratory significantly affecting the stellar properties At very high densities general relativity predicts the stellar collapse to a black hole However a number of current theoretical activities modifying Einstein's theory point to possible alternative scenarios where this collapse might be avoided These and related topics are addressed in this book in a series of highly readable chapters In addition the book includes fundamental analyses of the practicalities involved in transiting to an electricity supply mainly based on renewable energies investigating this scenario less from an engineering and more from a physics point of view While the topics comprise a large scope of activities the contributions also show an extensive overlap in the methodology and in the analytical and numerical tools involved in tackling these diverse research fields that are the forefront of modern science

Exploring Fundamental Issues in

Nuclear Physics Debades Bandyopadhyay, 2012 This book focus on recent advances in nuclear physics and bring together experimentalists and theorists Topics covered include neutron rich and superheavy nuclei supernova and r process nuclei nuclear symmetry energy and equation of state neutron stars FAIR and future Dubna research other related areas

Beyond Pseudo-Rotations in Pseudo-Euclidean Spaces Abraham Ungar, 2018-01-10 Beyond Pseudo Rotations in Pseudo Euclidean Spaces presents for the first time a unified study of the Lorentz transformation group $SO(m, n)$ of signature (m, n) which is fully analogous to the Lorentz group $SO(1, 3)$ of Einstein's special theory of relativity It is based on a novel parametric realization of pseudo rotations by a vector like parameter with two orientation parameters The book is of interest to specialized researchers in the areas of algebra geometry and mathematical physics containing new results that suggest further exploration in these areas Introduces the study of generalized gyrogroups and gyrovector spaces Develops new

algebraic structures bi gyrogroups and bi gyrovector spaces Helps readers to surmount boundaries between algebra geometry and physics Assists readers to parametrize and describe the full set of generalized Lorentz transformations in a geometric way Generalizes approaches from gyrogroups and gyrovector spaces to bi gyrogroups and bi gyrovector spaces with geometric entanglement **Origin(s) of Design in Nature** Liz Swan,Richard Gordon,Joseph Seckbach,2012-08-27
Origin s of Design in Nature is a collection of over 40 articles from prominent researchers in the life physical and social sciences medicine and the philosophy of science that all address the philosophical and scientific question of how design emerged in the natural world The volume offers a large variety of perspectives on the design debate including progressive accounts from artificial life embryology complexity cosmology theology and the philosophy of biology This book is volume 23 of the series Cellular Origin Life in Extreme Habitats and Astrobiology www.springer.com series 5775 Scientific and Technical Aerospace Reports ,1992

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