



Complex General Relativity

Peter O. Hess, Mirko Schäfer, Walter Greiner

Complex General Relativity:

Complex General Relativity Giampiero Esposito, 2006-04-11 This book is written for theoretical and mathematical physicists and mathematicians interested in recent developments in complex general relativity and their application to classical and quantum gravity. Calculations are presented by paying attention to those details normally omitted in research papers for pedagogical reasons. Familiarity with fibre bundle theory is certainly helpful but in many cases I only rely on two spinor calculus and conformally invariant concepts in gravitational physics. The key concepts the book is devoted to are complex manifolds, spinor techniques, conformal gravity, planes, surfaces, Penrose transform, complex 3+1 space-time models with non-vanishing torsion, spin fields and spin potentials. 22 Problems have been inserted at the end to help the reader to check his understanding of these topics. Thus I can find at least four reasons for writing yet another book on spinor and twistor methods in general relativity: i) to write a textbook useful to training graduate students and research workers where two-component spinor calculus is the unifying mathematical language.

Complex General Relativity Maria Rosaria D'Esposito, 2014-03-14 This book is written for theoretical and mathematical physicists and mathematicians interested in recent developments in complex general relativity and their application to classical and quantum gravity. Calculations are presented by paying attention to those details normally omitted in research papers for pedagogical reasons. Familiarity with fibre bundle theory is certainly helpful but in many cases I only rely on two spinor calculus and conformally invariant concepts in gravitational physics. The key concepts the book is devoted to are complex manifolds, spinor techniques, conformal gravity, planes, surfaces, Penrose transform, complex 3+1 space-time models with non-vanishing torsion, spin fields and spin potentials. 22 Problems have been inserted at the end to help the reader to check his understanding of these topics. Thus I can find at least four reasons for writing yet another book on spinor and twistor methods in general relativity: i) to write a textbook useful to training graduate students and research workers where two-component spinor calculus is the unifying mathematical language.

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 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

Topics In Quantum Field Theory: Modern Methods In Fundamental Physics D H Tchraikian,1995-12-30

This book constitutes the proceedings of a meeting which brought together contributors from the four European networks in the area of the theory of fundamental interactions While each of these networks overlaps strongly with all the others this coming together gives the proceedings a greater than usual breadth of subjects nevertheless The wide range of topics in quantum field theory covered includes Hamiltonian and semiclassical methods critical phenomena and various aspects of classical and quantum gravity including also a study in the detection of gravitational radiation This together with the leading item on the recent history of the subject gives an overall perspective of the many new research directions in this area

Complex Analysis and Dynamical Systems IV Mark L'vovich Agranovskiĭ,2011 The papers in this volume cover a wide variety of topics in differential geometry general relativity and partial differential equations In addition there are several articles dealing with various aspects of Lie groups and mathematics physics Taken together the articles provide the reader with a panorama of activity in general relativity and partial differential equations drawn by a number of leading figures in the field The companion volume *Contemporary Mathematics Volume 553* is devoted to function theory and optimization

Lectures on Non-perturbative Canonical Gravity Abhay Ashtekar,Ranjeet S. Tate,1991 Notes prepared in Collaboration with Ranjeet S Tate It is now generally recognized that perturbative field theoretical methods that have been highly successful in the quantum description of non gravitational interactions cannot be used as a means of constructing a quantum theory of gravity The primary aim of the book is to present an up to date account of a non perturbative canonical quantization program for gravity Many of the technical results obtained in the process are of interest also to differential geometry

classical general relativity and QCD The program as a whole was highlighted in virtually every major conference in gravitational physics over the past three years **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 Recent Advances in General Relativity Allen I. Janis,John R. Porter,1992-02-07 Papers from the Discussion Conference on Recent Advances in General Relativity held at the U of Pittsburgh May 1990 survey the interacting fields of classical general relativity astrophysics and quantum gravity Some of the remarks made following the invited papers are also included The conference also included three workshops on classical g

Developments in General Relativity, Astrophysics and Quantum Theory Nathan Rosen,1990 The currents of interest deep discussion that stemmed from a paper published in 1935 of Einstein Podolsky Rosen which continue unabated to this day are very much in evidence in this volume Along with the great works of Bohr Schrodinger Heisenberg Born others it stands at the foundations of our thinking on the quantum theory poses a serious challenge to its claim to completeness

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 **A Direct Derivation of the Form of the Standard Model from GL(16)** Stephen Blaha,2008

This book provides a comprehensive derivation of the form of the Standard Model of Elementary Particles based on postulates grounded in GL 16 It shows that there are two possible general forms of the Standard Model based on the GL 16 group and quantum field theory One form the Complexon Standard Model naturally leads to color SU 3 The other possible form implied by our derivation is the vanilla Standard Model This study reduces the form of the Standard Model to space time geometry and quantum field theory Fourteenth Texas Symposium on Relativistic Astrophysics Ervin J. Fenyves,1989

The New Philosophy of Modern Science William Walker Strong,1920 Advances in Gravitation and Cosmology

,1993 Simon Stevin,1981 **Proceedings of the London Mathematical Society** London Mathematical Society,1925
Papers presented to J E Littlewood on his 80th birthday issued as 3d ser v 14 A 1965 **Science Abstracts**,1922 **New
Perspectives in Canonical Gravity** Abhay Ashtekar,1988 **Fifth Mexican School of Particles and Fields** J.L. Lucio,M.
Vargas,1994 Annotation The Fifth Mexican School held from November 29 to December 11 1992 was devoted to topics in the
frontier of theoretical and experimental physics of the fundamental reactions The topics gauge symmetries topology and
quantization CP violation in the standard model and beyond introduction to chiral perturbation theory knot theory and
quantum gravity in loop space a primer quantum groups new results from experiments at the HERA storage ring and from
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