

LECTURE NOTES IN PHYSICS

J. Frauendiener · H. Friedrich (Eds.)

The Conformal Structure of Space-Time

Geometry, Analysis,
Numerics



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The Conformal Structure Of Space Time Geometry

Analysis Numerics

Jörg Frauendiener, Helmut Friedrich



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The Conformal Structure of Space-Times Jörg Frauendiener, Helmut Friedrich, 2008-01-11 Causal relations and with them the underlying null cone or conformal structure form a basic ingredient in all general analytical studies of asymptotically flat space time The present book reviews these aspects from the analytical geometrical and numerical points of view Care has been taken to present the material in a way that will also be accessible to postgraduate students and nonspecialist researchers from related fields

The Einstein Equations and the Large Scale Behavior of Gravitational Fields Piotr T. Chrusciel, Helmut Friedrich, 2012-12-06 The book presents state of the art results on the analysis of the Einstein equations and the large scale structure of their solutions It combines in a unique way introductory chapters and surveys of various aspects of the analysis of the Einstein equations in the large It discusses applications of the Einstein equations in geometrical studies and the physical interpretation of their solutions Open problems concerning analytical and numerical aspects of the Einstein equations are pointed out Background material on techniques in PDE theory differential geometry and causal theory is provided

Relativity and Gravitation Jiří Bičák, Tomáš Ledvinka, 2014-06-06 In early April 1911 Albert Einstein arrived in Prague to become full professor of theoretical physics at the German part of Charles University It was there for the first time that he concentrated primarily on the problem of gravitation Before he left Prague in July 1912 he had submitted the paper Relativit t und Gravitation Erwiderung auf eine Bemerkung von M Abraham in which he remarkably anticipated what a future theory of gravity should look like At the occasion of the Einstein in Prague centenary an international meeting was organized under a title inspired by Einstein s last paper from the Prague period Relativity and Gravitation 100 Years after Einstein in Prague The main topics of the conference included classical relativity numerical relativity relativistic astrophysics and cosmology quantum gravity experimental aspects of gravitation and conceptual and historical issues The conference attracted over 200 scientists from 31 countries among them a number of leading experts in the field of general relativity and its applications This volume includes abstracts of the plenary talks and full texts of contributed talks and articles based on the posters presented at the conference

These describe primarily original results of the authors Full texts of the plenary talks are included in the volume General Relativity Cosmology and Astrophysics Perspectives 100 Years after Einstein in Prague eds J Bi k and T Ledvinka published also by Springer Verlag

Beyond Einstein David E. Rowe,Tilman Sauer,Scott A. Walter,2018-06-18 Beyond Einstein Perspectives on Geometry Gravitation and Cosmology explores the rich interplay between mathematical and physical ideas by studying the interactions of major actors and the roles of important research communities over the course of the last century

Conformal Methods in General Relativity Juan A. Valiente Kroon,2023-02-09 This 2016 volume now reissued as OA shows how conformal methods can be used to study Einstein s theory of gravity

Accelerating Expansion Gordon Belot,2023-08-24 Accelerating Expansion explores some of the philosophical implications of modern cosmology focused on the significance that the discovery of the accelerating expansion of the Universe has for our understanding of time geometry and physics The appearance of the cosmological constant in the equations of general relativity allows one to model universes in which space has an inherent tendency towards expansion This constant introduced by Einstein but subsequently abandoned by him returned to centre stage with the discovery of the accelerating expansion This pedagogically oriented essay begins with a study of the most basic and elegant relativistic world that involves a positive cosmological constant de Sitter spacetime It then turns to the relatives of de Sitter spacetime that dominate modern relativistic cosmology Some of the topics considered include the nature of time and simultaneity in de Sitter worlds the sense in which de Sitter spacetime is a powerful dynamical attractor the limited extent to which observation can give us information about the topology of space in a world undergoing accelerated expansion and cosmologists favourite sceptical worry about the reliability of evidence and the possibility of knowledge the problem of Boltzmann brains

Cycles of Time Roger Penrose,2011-09-06 From Nobel prize winner Roger Penrose this groundbreaking book is for anyone who is interested in the world how it works and how it got here New York Journal of Books Penrose presents a new perspective on three of cosmology s essential questions What came before the Big Bang What is the source of order in our universe And what cosmic future awaits us He shows how the expected fate of our ever accelerating and expanding universe heat death or ultimate entropy can actually be reinterpreted as the conditions that will begin a new Big Bang He details the basic principles beneath our universe explaining various standard and non standard cosmological models the fundamental role of the cosmic microwave background the paramount significance of black holes and other basic building blocks of contemporary physics Intellectually thrilling and widely accessible Cycles of Time is a welcome new contribution to our understanding of the universe from one of our greatest mathematicians and thinkers

Iaeng Transactions On Engineering Sciences: Special Issue For The International Association Of Engineers Conferences 2015 Sio-iong Ao,Alan Hoi-shou Chan,Hideki Katagiri,Li Xu,2016-08-10 Two large international conferences on Advances in Engineering Sciences were held in Hong Kong March 18 20 2015 under the International MultiConference of Engineers and Computer Scientists IMECS 2015 and in London UK 1 3 July 2015 under the

World Congress on Engineering WCE 2015 respectively This volume contains 35 revised and extended research articles written by prominent researchers participating in the conferences Topics covered include engineering mathematics computer science electrical engineering manufacturing engineering industrial engineering and industrial applications The book offers state of the art advances in engineering sciences and also serves as an excellent reference work for researchers and graduate students working with on engineering sciences

Extended Density Functionals in Nuclear Structure Physics G. A. Lalazissis, Peter Ring, D. Vretenar, 2004-03-25 The experimental and theoretical investigation of nuclei far from the valley of beta stability is the main subject of modern nuclear structure research Although the most successful nuclear structure models are purely phenomenological they nevertheless exploit basic properties of QCD at low energies This book focuses on the current efforts to bridge the gap between phenomenology and the principles derived from QCD using the extended density functional approach which is based on the successful DFT methods to tackle similarly complex interacting systems in molecular and condensed matter physics Conceived as a series of pedagogical lectures this volume addresses researchers in the field as well as postgraduate students and non specialized scientists from related areas who seek a high level but accessible introduction to the subject

Map Projections Erik W. Grafarend, Friedrich W. Krumm, 2006-12-31 In the context of Geographical Information Systems GIS the book offers a timely review of map projections sphere ellipsoid rotational surfaces and geodetic datum transformations For the needs of photogrammetry computer vision and remote sensing space projective mappings are reviewed

Elements of Numerical Relativity Carles Bona, Carlos Palenzuela-Luque, 2005-07-07 Spurred by the current development of numerous large scale projects for detecting gravitational radiation with the aim to open a completely new window to the observable Universe numerical relativity has become a major field of research over the past years Indeed numerical relativity is the standard approach when studying potential sources of gravitational waves where strong fields and relativistic velocities are part of any physical scenario This book can be considered a primer for both graduate students and non specialist researchers wishing to enter the field Starting from the most basic insights and aspects of numerical relativity Elements of Numerical Relativity develops coherent guidelines for the reliable and convenient selection of each of the following key aspects evolution formalism gauge initial and boundary conditions as well as various numerical algorithms The tests and applications proposed in this book can be performed on a standard PC

Molecules in Interaction with Surfaces and Interfaces Reinhold Haberlandt, Dieter Michel, Andreas Pöppel, Ralf Stannarius, 2004-03-15 The study of the interaction of molecules with surfaces and interfaces is of great importance for the understanding of adsorption and catalysis on solid surfaces the complex properties of molecules on fluid interfaces and the relationship between structure and functionality in macromolecular biological systems It is the aim of this volume to present and analyse in a comprehensive and accesible way the methodical achievements and the recent proress in this field The broadness of both scope and selection of the topics should help in particular non expert readers to

become familiar with this exciting field of research

Quantum State Estimation Matteo Paris, Jaroslav

Rehacek, 2004-08-11 This book is a comprehensive survey of most of the theoretical and experimental achievements in the field of quantum estimation of states and operations. Albeit still quite young, this field has already been recognized as a necessary tool for research in quantum optics and quantum information beyond being a fascinating subject in its own right since it touches upon the conceptual foundations of quantum mechanics. The book consists of twelve extensive lectures that are essentially self-contained and modular, allowing combination of various chapters as a basis for advanced courses and seminars on theoretical or experimental aspects. The last two chapters, for instance, form a self-contained exposition on quantum discrimination problems. The book will benefit graduate students and newcomers to the field as a high level but accessible textbook, lecturers in search for advanced course material, and researchers wishing to consult a modern and authoritative source of reference.

The Early Universe and Observational Cosmology Nora Bretón, Jorge L.

Cervantes-Cota, Marcelo Salgado, 2004-05-14 Spectacular experimental advances in observational cosmology have helped raise cosmology to the status of a genuine science, and it is now possible to test many speculative theoretical issues and to obtain reliable values for the key parameters defining our observable universe. This book has emerged from selected lectures given at the Mexican School on Gravitation and Mathematical Physics by leaders in their field. Conceived as both a broad survey and as topical coverage of the latest developments, it will benefit graduate students and newcomers to this field and provide researchers in the field with a modern source of reference.

Elements of Numerical Relativity and Relativistic Hydrodynamics Carles Bona, Carlos Palenzuela-Luque, Carles Bona-Casas, 2009-07-14 Many large scale projects for detecting gravitational radiation are currently being developed, all with the aim of opening a new window onto the observable Universe. As a result, numerical relativity has recently become a major field of research, and *Elements of Numerical Relativity and Relativistic Hydrodynamics* is a valuable primer for both graduate students and non-specialist researchers wishing to enter the field. A revised and significantly enlarged edition of LNP 673, *Elements of Numerical Relativity*, this book starts with the most basic insights and aspects of numerical relativity before it develops coherent guidelines for the reliable and convenient selection of each of the following key aspects: evolution formalism, gauge, initial and boundary conditions, and various numerical algorithms. And in addition to many revisions, it includes new convenient damping terms for numerical implementations, a presentation of the recently developed harmonic formalism, and an extensive new chapter on matter space-times containing a thorough introduction to relativistic hydrodynamics. While proper reference is given to advanced applications requiring large computational resources, most tests and applications in this book can be performed on a standard PC.

Developments in Lorentzian Geometry Alma L. Albuja, Magdalena Caballero, Alfonso García-Parrado, Jónatan Herrera, Rafael Rubio, 2022-10-06 This proceedings volume gathers selected revised papers presented at the X International Meeting on Lorentzian Geometry GeLoCor 2021, virtually held at the University of Córdoba, Spain, on February 1-5, 2021. It

includes surveys describing the state of the art in specific areas and a selection of the most relevant results presented at the conference Taken together the papers offer an invaluable introduction to key topics discussed at the conference and an overview of the main techniques in use today This volume also gathers extended revisions of key studies in this field Bringing new results and examples these unique contributions offer new perspectives to the original problems and in most cases extend and reinforce the robustness of previous findings Hosted every two years since 2001 the International Meeting on Lorentzian Geometry has become one of the main events bringing together the leading experts on Lorentzian geometry In this volume the reader will find studies on spatial and null hypersurfaces low regularity in general relativity conformal structures Lorentz Finsler spacetimes and more Given its scope the book will be of interest to both young and experienced mathematicians and physicists whose research involves general relativity and semi Riemannian geometry Forthcoming Books Rose Arny,2003 *Ciclos del tiempo* Roger Penrose,2011-04-01 Una extraordinaria nueva visi n del universo por el Premio Nobel de F sica 2020 Roger Penrose La revolucionaria y exitosa obra de Roger Penrose El camino a la realidad presentaba una gu a completa y comprensible de las leyes que rigen el universo desde nuestro conocimiento actual En Ciclos del tiempo su libro m s ambicioso Penrose va mucho m s all desarrolla una visi n in dita de la cosmolog a y propone una respuesta inesperada a la pregunta Qu pas antes del Big Bang Las dos ideas clave que hay detr s de esta nueva visi n son un penetrante an lisis de la Segunda Ley de la termodin mica que establece el principio de la entrop a y el estudio de la geometr a de conos de luz del espacio tiempo Penrose logra combinar estos dos temas para demostrar que el destino ltimo de nuestro universo en expansi n y aceleraci n puede ser visto como el big bang de uno nuevo Por el camino nos explica muchos otros ingredientes b sicos de esta idea y comenta varios modelos cosmol gicos tanto ortodoxos como heterodoxos as como el papel fundamental y ubicuo de la radiaci n c smica de microondas Otra parte crucial de su exposici n es la relativa a los inmensos agujeros negros detectados en los centros de las galaxias y su eventual desaparici n a trav s del misterioso proceso de evaporaci n de Hawking Una obra fundamental para todos los amantes de la ciencia Rese as El camino a la realidad es una innovaci n radical en la divulgaci n cient fica En primer lugar porque desaf a de manera flagrante y sistem tica la ley de Hawking Cada ecuaci n que introduces en un libro reduce las ventas a la mitad El camino a la realidad es simple y llanamente una invitaci n a todo el mundo que quiera subirse al carro de la ciencia contempor nea Javier Sampedro Babelia El optimismo de Penrose es contagioso Lo cierto es que a quien se atreve con este libro se le exige un enorme esfuerzo que tiene una incomparable recompensa lo que aqu se cuenta es la aproximaci n m s perfecta que se tiene de la realidad El aparato construido para llevar a cabo esta proeza es uno de los productos m s sublimes que puede aportar la mente humana como tarjeta de visita la satisfacci n intelectual est garantizada Leer Aquellos interesados en los secretos del universo y su inquietante pasado presente y futuro no pueden perderse este fascinante relato del gran divulgador de la astrof sica contempor nea La Raz n

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