

Pietro Giuseppe Frè

Gravity, a Geometrical Course

Volume 2: Black Holes, Cosmology
and Introduction to Supergravity



 Springer

Gravity A Geometrical Course Volume 2 Black Holes Cosmology And Introduction To Supergravity

Martin Bojowald



Gravity A Geometrical Course Volume 2 Black Holes Cosmology And Introduction To Supergravity:

Gravity, a Geometrical Course Pietro Giuseppe Frè, 2012-10-24 Gravity a Geometrical Course presents general relativity GR in a systematic and exhaustive way covering three aspects that are homogenized into a single texture i the mathematical geometrical foundations exposed in a self consistent contemporary formalism ii the main physical astrophysical and cosmological applications updated to the issues of contemporary research and observations with glimpses on supergravity and superstring theory iii the historical development of scientific ideas underlying both the birth of general relativity and its subsequent evolution The book is divided in two volumes Volume Two is covers black holes cosmology and an introduction to supergravity The aim of this volume is two fold It completes the presentation of GR and it introduces the reader to theory of gravitation beyond GR which is supergravity Starting with a short history of the black hole concept the book covers the Kruskal extension of the Schwarzschild metric the causal structures of Lorentzian manifolds Penrose diagrams and a detailed analysis of the Kerr Newman metric An extensive historical account of the development of modern cosmology is followed by a detailed presentation of its mathematical structure including non isotropic cosmologies and billiards de Sitter space and inflationary scenarios perturbation theory and anisotropies of the Cosmic Microwave Background The last three chapters deal with the mathematical and conceptual foundations of supergravity in the frame of free differential algebras Branes are presented both as classical solutions of the bulk theory and as world volume gauge theories with particular emphasis on the geometrical interpretation of kappa supersymmetry The rich bestiary of special geometries underlying supergravity lagrangians is presented followed by a chapter providing glances on the equally rich collection of special solutions of supergravity Pietro Frè is Professor of Theoretical Physics at the University of Torino Italy and is currently serving as Scientific Counsellor of the Italian Embassy in Moscow His scientific passion lies in supergravity and all allied topics since the inception of the field in 1976 He was professor at SISSA worked in the USA and at CERN He has taught General Relativity for 15 years He has previously two scientific monographs Supergravity and Superstrings and The N 2 Wonderland He is also the author of a popular science book on cosmology and two novels in Italian **MUS - Mathematimus - Hyperelliptical Geometry** Stenio Musich, 2024-03-25 M U S Mathematical Uniform Space is a new number of π representing the reality of the Universe in which we live With this number we created a new geometry Hyperelliptical Geometry which will provide the unification of physics thus uniting the Theory of Relativity and Quantum Theory A new geometry for a new Mathematics and a new Physics ISBN 978 65 00 98107 0 Gravity, a Geometrical Course Pietro Giuseppe Frè, 2012-10-24 Gravity a Geometrical Course presents general relativity GR in a systematic and exhaustive way covering three aspects that are homogenized into a single texture i the mathematical geometrical foundations exposed in a self consistent contemporary formalism ii the main physical astrophysical and cosmological applications updated to the issues of contemporary research and observations with glimpses on supergravity and superstring theory iii the

historical development of scientific ideas underlying both the birth of general relativity and its subsequent evolution The book divided in two volumes is a rich resource for graduate students and those who wish to gain a deep knowledge of the subject without an instructor Volume One is dedicated to the development of the theory and basic physical applications It guides the reader from the foundation of special relativity to Einstein field equations illustrating some basic applications in astrophysics A detailed account of the historical and conceptual development of the theory is combined with the presentation of its mathematical foundations Differentiable manifolds fibre bundles differential forms and the theory of connections are covered with a sketchy introduction to homology and cohomology Pseudo Riemannian geometry is presented both in the metric and in the vielbein approach Physical applications include the motions in a Schwarzschild field leading to the classical tests of GR light ray bending and periastron advance discussion of relativistic stellar equilibrium white dwarfs Chandrasekhar mass limit and polytropes An entire chapter is devoted to tests of GR and to the indirect evidence of gravitational wave emission The formal structure of gravitational theory is at all stages compared with that of non gravitational gauge theories as a preparation to its modern extension namely supergravity discussed in the second volume

Pietro Fr is Professor of Theoretical Physics at the University of Torino Italy and is currently serving as Scientific Counsellor of the Italian Embassy in Moscow His scientific passion lies in supergravity and all allied topics since the inception of the field in 1976 He was professor at SISSA worked in the USA and at CERN He has taught General Relativity for 15 years He has previously two scientific monographs Supergravity and Superstrings and The N 2 Wonderland He is also the author of a popular science book on cosmology and two novels in Italian

Gravity, Black Holes, and the Very Early Universe Tai L. Chow, 2007-10-24 Here it is in a nutshell the history of one genius s most crucial work discoveries that were to change the face of modern physics In the early 1900s Albert Einstein formulated two theories that would forever change the landscape of physics the Special Theory of Relativity and the General Theory of Relativity Respected American academic Professor Tai Chow tells us the story of these discoveries He details the basic ideas of Einstein including his law of gravitation Deftly employing his inimitable writing style he goes on to explain the physics behind black holes weaving into his account an explanation of the structure of the universe and the science of cosmology

Physics Briefs ,1989

Canonical Gravity and Applications Martin Bojowald, 2010-12-23 Canonical methods are a powerful mathematical tool within the field of gravitational research both theoretical and experimental and have contributed to a number of recent developments in physics Providing mathematical foundations as well as physical applications this is the first systematic explanation of canonical methods in gravity The book discusses the mathematical and geometrical notions underlying canonical tools highlighting their applications in all aspects of gravitational research from advanced mathematical foundations to modern applications in cosmology and black hole physics The main canonical formulations including the Arnowitt Deser Misner ADM formalism and Ashtekar variables are derived and discussed Ideal for both graduate students and researchers this book provides a link

between standard introductions to general relativity and advanced expositions of black hole physics theoretical cosmology or quantum gravity

Classical and Quantum Black Holes P. Fre, V. Gorini, G. Magli, U. Moschella, 1999-09-01 Black holes are becoming increasingly important in contemporary research in astrophysics cosmology theoretical physics and mathematics Indeed they provoke some of the most fascinating questions in fundamental physics which may lead to revolutions in scientific thought Written by distinguished scientists Classical and Quantum Black Holes provides a comprehensive panorama of black hole physics and mathematics from a modern point of view The book begins with a general introduction followed by five parts that cover several modern aspects of the subject ranging from the observational and the experimental to the more theoretical and mathematical issues The material is written at a level suitable for postgraduate students entering the field

Introduction to Black Hole Physics Valeri P. Frolov, Andrei Zelnikov, 2011-09-22 What is a black hole How many of them are in our Universe Can black holes be created in a laboratory or in particle colliders Can objects similar to black holes be used for space and time travel This book discusses these and many other questions providing the reader with the tools required to explore the Black Hole Land independently

General Relativity Michael J. W. Hall, 2018 General Relativity An Introduction to Black Holes Gravitational Waves and Cosmology provides readers with a solid understanding of the underlying physical concepts of general relativity It also shows how they may derive important applications of the theory and is a solid grounding for those wishing to pursue further study This thorough primer is based on class tested undergraduate lectures from Griffith University Brisbane It develops the basic elements of general relativity with applications to the gravitational deflection of light GPS black holes gravitational waves and cosmology

Theoretical Frontiers in Black Holes and Cosmology Renata Kallosh, Emanuele Orazi, 2016-07-16 These lecture notes are dedicated to the most recent theoretical applications of Black Hole solutions in high energy physics The main motivation of this volume is to present the latest black hole backgrounds that are relevant for gauge gravity correspondence Leading scientists in the field explain effective techniques for finding singular and cosmological solutions embedded in gauged supergravity shedding light on underlying properties and symmetries Starting from a basic level the mathematical structures underlying black holes and cosmologies are revealed helping the reader grasp the connection between theoretical approaches and physical observations with insights into possible future developments from both a theoretical and experimental point of view The topics covered in this volume are based on lectures delivered during the Theoretical Frontiers in Black Holes and Cosmology school held in Natal in June 2015

Modern General Relativity M. W. Guidry, Mike Guidry, 2019-01-03 Introduces the physics of general relativity in relation to modern topics such as gamma ray bursts black holes and gravitational waves

Space, Time, and Gravity Robert M. Wald, 1992-05 Writing for the general reader or student Wald has completely revised and updated this highly regarded work to include recent developments in black hole physics and cosmology Nature called the first edition a very readable and accurate account of modern relativity physics for the layman within the unavoidable

constraint of almost no mathematics A well written entertaining and authoritative book

Black Holes, Cosmology and Extra Dimensions Kirill A. Bronnikov, Sergei G. Rubin, 2013 Assuming foundational knowledge of special and general relativity this book guides the reader on issues surrounding black holes wormholes and cosmology Half of it is devoted to local strong field configurations black holes and wormholes in general relativity and the most relevant of alternative theories scalar tensor $f(R)$ and multidimensional theories The remaining half is on cosmology including inflation and a unified description of the whole evolution of the universe Much of the content is new in book publications because it was previously found only in journal publications e g regarding regular black holes various scalar field solutions wormholes and their stability The original approach to nonlinear multidimensional gravity that is able to construct a unique perspective describing different phenomena is highlighted Expository work is conducted for mechanism of symmetries and fundamental constants formation

Beyond Einstein Gravity Salvatore Capozziello, Valerio Faraoni, 2010-10-27 Beyond Einstein's Gravity is a graduate level introduction to extended theories of gravity and cosmology including variational principles the weak field limit gravitational waves mathematical tools exact solutions as well as cosmological and astrophysical applications The book provides a critical overview of the research in this area and unifies the existing literature using a consistent notation Although the results apply in principle to all alternative gravities a special emphasis is on scalar tensor and $f(R)$ theories They were studied by theoretical physicists from early on and in the 1980s they appeared in attempts to renormalize General Relativity and in models of the early universe Recently these theories have seen a new lease of life in both their metric and metric affine versions as models of the present acceleration of the universe without introducing the mysterious and exotic dark energy The dark matter problem can also be addressed in extended gravity These applications are contributing to a deeper understanding of the gravitational interaction from both the theoretical and the experimental point of view An extensive bibliography guides the reader into more detailed literature on particular topics

Gravitation Charles W. Misner, Kip S. Thorne, John Archibald Wheeler, 2017-10-03 First published in 1973 Gravitation is a landmark graduate level textbook that presents Einstein's general theory of relativity and offers a rigorous full year course on the physics of gravitation Upon publication Science called it a pedagogic masterpiece and it has since become a classic considered essential reading for every serious student and researcher in the field of relativity This authoritative text has shaped the research of generations of physicists and astronomers and the book continues to influence the way experts think about the subject With an emphasis on geometric interpretation this masterful and comprehensive book introduces the theory of relativity describes physical applications from stars to black holes and gravitational waves and portrays the field's frontiers The book also offers a unique alternating two track pathway through the subject Material focusing on basic physical ideas is designated as Track 1 and formulates an appropriate one semester graduate level course The remaining Track 2 material provides a wealth of advanced topics instructors can draw on for a two semester course with Track 1 sections serving as prerequisites This must

have reference for students and scholars of relativity includes a new preface by David Kaiser reflecting on the history of the book's publication and reception and a new introduction by Charles Misner and Kip Thorne discussing exciting developments in the field since the book's original publication The book teaches students to Grasp the laws of physics in flat and curved spacetime Predict orders of magnitude Calculate using the principal tools of modern geometry Understand Einstein's geometric framework for physics Explore applications including neutron stars Schwarzschild and Kerr black holes gravitational collapse gravitational waves cosmology and so much more *The Galactic Black Hole* H Falcke, F Hehl, 2002-12-16 The supermassive black hole in the center of our Milky Way is the nearest such object and relatively easy to observe and study Not surprisingly therefore it is the best studied supermassive black hole Many astrophysical and even general relativistic effects can be investigated in great detail The Galactic Black Hole Lectures on General Relativity and Astrophysics provides a systematic introduction to the physics astrophysics and mathematics of black holes at a level suitable for graduate students postdocs and researchers in physics astrophysics astronomy and applied mathematics The focus is mainly on the supermassive black hole in the center of our Milky Way but the results can be easily generalized taking it as an example Leading international experts provide first hand accounts of the observational and theoretical aspects of this black hole Topics range from the properties of the Schwarzschild metric and the collapse of a black hole to quantum gravity and from the structure of the Galaxy to accretion of matter and the emission properties of the Galactic Center black hole

Gravity, Black Holes and the Universe Iain Nicolson, 1981 *Black Holes in Higher Dimensions* Gary T. Horowitz, 2012 Black holes are one of the most remarkable predictions of Einstein's general relativity Now widely accepted by the scientific community most work has focussed on black holes in our familiar four spacetime dimensions But in recent years ideas in brane world cosmology string theory and gauge gravity duality have all motivated a study of black holes in more than four dimensions with surprising results In higher dimensions black holes exist with exotic shapes and unusual dynamics Edited by leading expert Gary Horowitz this exciting book is the first devoted to this new field The major discoveries are explained by the people who made them Rob Myers describes the Myers-Perry solutions that represent rotating black holes in higher dimensions Ruth Gregory describes the Gregory-Laflamme instability of black strings and Juan Maldacena introduces gauge gravity duality the remarkable correspondence that relates a gravitational theory to nongravitational physics There are two additional chapters on this duality describing how black holes can be used to describe relativistic fluids and aspects of condensed matter physics *Lectures on General Relativity, Cosmology and Quantum Black Holes* Badis Ydri, 2017 Whilst general relativity is not complex in its formulation the physical interpretation of its mathematical descriptions gives rise to a range of exciting consequences in cosmology A detailed understanding of general relativity is therefore a prerequisite for students wishing to pursue further courses or commence research projects in cosmology and its various captivating subfields including black holes and gravitational waves This is not a book on general

relativity per se and the author's treatment of this fundamental topic is concise with the required differential geometry summarized in an appendix. Instead, the primary goal of this book is to allow students to understand in a critical way two pillars of modern theoretical physics: inflationary theory and quantum black holes and the information loss problem. Accordingly, the book extensively introduces black holes and cosmology before proceeding to the important issues found in inflation and the information loss problem. Other important topics discussed in detail include the cosmological constant and its relation to dark energy and an introduction to quantum field theory on curved backgrounds. Including numerous exercise problems, the material provides a single rigorous text for advanced students in theoretical physics and mathematics requiring an introduction to the implications and interpretation of general relativity in areas of cosmology. Readers of this text will be well prepared to follow the theoretical developments in the field and undertake research projects as part of an MSc or PhD programme.

Space, Time, and Gravity Robert M. Wald, 2023

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