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Black holes in general relativity

Cambridge University Press



Figure 1.1: A black hole.

This book is a comprehensive introduction to the theory of black holes in general relativity. It covers the basic concepts and the latest developments in the field. The book is written for students and researchers alike, and is suitable for use as a textbook or a reference work.

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Reference Frames And Gravitomagnetism

Alberto Lobo



Reference Frames And Gravitomagnetism:

Reference Frames And Gravitomagnetism, Procs Of The Xxiii Spanish Relativity Meeting L Floria, J F Pascual-sanchez, A San Miguel, F Vicente, 2001-07-02 This book provides an authoritative overview of the developments in gravitomagnetism which have taken place in the last few years In particular experiments for measuring the Lense Thirring effect with satellites orbiting the Earth are reviewed and an updated list of references on gravitomagnetism is included The book also presents diverse research in general relativity and cosmology It will be of interest to graduate students and researchers in cosmology astrophysics astronomy relativity and applied mathematics

Proceedings of the XXIII Spanish Relativity Meeting on Reference Frames and Gravitomagnetism J. F. Pascual Sanchez, 2001 This book provides an authoritative overview of the developments in gravitomagnetism which have taken place in the last few years In particular experiments for measuring the Lense Thirring effect with satellites orbiting the Earth are reviewed and an updated list of references on gravitomagnetism is included The book also presents diverse research in general relativity and cosmology It will be of interest to graduate students and researchers in cosmology astrophysics astronomy relativity and applied mathematics

The Measurement of Gravitomagnetism Lorenzo Iorio, 2007 This book is intended to give an updated overview on the state of the art of the theoretical and experimental efforts aimed to detect the elusive Lense Thirring effect in the gravitational field of the Earth The reader after a robust introduction to the historical Chapter 2 and theoretical Chapters 3 5 aspects of the subject will get acquainted with the subtleties required to design suitable observables which are able to sufficiently enhance the signal to noise ratio Moreover he she should be able to follow autonomously the exciting developments which hopefully will take place in the near future if and when reliable few percent tests of this prediction of general relativity should become available In an Earth space based experiment with artificial satellites a good compromise between the need of reducing the impact of the systematic errors of gravitational origin and of non gravitational origin must be obtained this is not an easy task because such requirements are often in conflict one with each other Consequently a great attention is paid to elucidate many classical perturbing effects which if not carefully modelled and accounted for in the data analysis may alias the recovery of the gravitomagnetic signature Indeed we are dealing with a fundamental test of general relativity which must be honest robust and based on solid error analysis A critical and detailed discussion of the latest test with the LAGEOS satellites is included The book will also be useful for better understanding the interplay among various geodetic geophysical general relativistic astronomical and matter wave interferometric effects which occurs in the weak field and slow motion approximation and which will become increasingly important in the near future thanks to the improvements in the accuracy of the orbital reconstruction process

Astronomical Applications of Astrometry M. A. C. Perryman, 2009 The Hipparcos satellite developed and launched by the European Space Agency ESA in 1989 was the first space mission dedicated to astrometry the accurate measurement of positions distances and proper motions of stars Amongst the key achievements of its measurements

are refining the cosmic distance scale characterizing the large scale kinematic motions in the Solar neighborhood providing precise luminosities for stellar modelling and confirming Einstein's prediction of the effect of gravity on starlight This authoritative account of the Hipparcos contributions over the last decade is an outstanding reference for astronomers astrophysicists and cosmologists It reviews the applications of the data in different areas describing the subject and the state of the art before Hipparcos and summarizing all major contributions to the topic made by Hipparcos It contains a detailed overview of the Hipparcos and Tycho Catalogues their annexes and their updates Each chapter ends with comprehensive references to relevant literature *General Relativity and John Archibald Wheeler* Ignazio Ciufolini, Richard A.

Matzner, 2010-06-22 Observational and experimental data pertaining to gravity and cosmology are changing our view of the Universe General relativity is a fundamental key for the understanding of these observations and its theory is undergoing a continuing enhancement of its intersection with observational and experimental data These data include direct observations and experiments carried out in our solar system among which there are direct gravitational wave astronomy frame dragging and tests of gravitational theories from solar system and spacecraft observations This book explores John Archibald Wheeler's seminal and enduring contributions in relativistic astrophysics and includes the General Theory of Relativity and Wheeler's influence recent developments in the confrontation of relativity with experiments the theory describing gravitational radiation and its detection in Earth based and space based interferometer detectors as well as in Earth based bar detectors the mathematical description of the initial value problem in relativity and applications to modeling gravitational wave sources via computational relativity the phenomenon of frame dragging and its measurement by satellite observations All of these areas were of direct interest to Professor John A Wheeler and were seminally influenced by his ideas **Relativity in**

Fundamental Astronomy (IAU S261) International Astronomical Union. Symposium, 2010-01-28 General relativity provides our best description of gravitation in modern physics currently all observations and tests of gravitational theories have agreed with it GR is applied in fields as diverse as fundamental astronomy astrophysics geodesy physics and space sciences where high accuracy observations and measurements are taken or modeled IAU Symposium 261 summarizes the present state of applied relativity It considers the applications of general relativity in a wide range of disciplines geodesy navigation solar system ephemerides space missions pulsar timing high accuracy astrometry gravity waves gravitational lenses and black hole astrophysics The future tests of general relativity based on improved observational accuracies and higher order developments of the theory are discussed in general Specific projects designed to test the theory in the near future are also covered This volume is a useful resource for all those interested in general and special relativity their current applications and future tests **NASA Tech Briefs**, 1993-04 **Progress in Physics, vol. 3/2009** Dmitri Rabounski, Florentin Smarandache, Larissa Borissova, Progress in Physics has been created for publications on advanced studies in theoretical and experimental physics including related themes from mathematics *Fifteenth Marcel Grossmann Meeting*,

The: On Recent Developments In Theoretical And Experimental General Relativity, Astrophysics, And Relativistic Field Theories - Proceedings Of The Mg15 Meeting On General Relativity (In 3 Volumes) Elia S Battistelli, Robert T Jantzen, Remo Ruffini, 2022-05-10 The three volumes of the proceedings of MG15 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 40 morning plenary talks over 6 days 5 evening popular talks and nearly 100 parallel sessions on 71 topics spread over 4 afternoons These proceedings are a representative sample of the very many oral and poster presentations made at the meeting Part A contains plenary and review articles and the contributions from some parallel sessions while Parts B and C consist of those from the remaining parallel sessions The contents range from the mathematical foundations of classical and quantum gravitational theories including recent developments in string theory to precision tests of general relativity including progress towards the detection of gravitational waves and from supernova cosmology to relativistic astrophysics including topics such as gamma ray bursts black hole physics both in our galaxy and in active galactic nuclei in other galaxies and neutron star pulsar and white dwarf astrophysics Parallel sessions touch on dark matter neutrinos X ray sources astrophysical black holes neutron stars white dwarfs binary systems radiative transfer accretion disks quasars gamma ray bursts supernovas alternative gravitational theories perturbations of collapsed objects analog models black hole thermodynamics numerical relativity gravitational lensing large scale structure observational cosmology early universe models and cosmic microwave background anisotropies inhomogeneous cosmology inflation global structure singularities chaos Einstein Maxwell systems wormholes exact solutions of Einstein s equations gravitational waves gravitational wave detectors and data analysis precision gravitational measurements quantum gravity and loop quantum gravity quantum cosmology strings and branes self gravitating systems gamma ray astronomy cosmic rays and the history of general relativity

Eleventh Marcel Grossmann Meeting, The: On Recent Developments In Theoretical And Experimental General Relativity, Gravitation And Relativistic Field Theories (In 3 Volumes) - Proceedings Of The Mg11 Meeting On General Relativity Hagen Kleinert, Robert T Jantzen, Remo Ruffini, 2008-09-04 The Marcel Grossmann Meetings are three yearly forums that meet to discuss recent advances in gravitation general relativity and relativistic field theories emphasizing their mathematical foundations physical predictions and experimental tests These meetings aim to facilitate the exchange of ideas among scientists to deepen our understanding of space time structures and to review the status of ongoing experiments and observations testing Einstein s theory of gravitation either from ground or space based experiments Since the first meeting in 1975 in Trieste Italy which was established by Remo Ruffini and Abdus Salam the range of topics presented at these meetings has gradually widened to accommodate issues of major scientific interest and attendance has grown to attract more than 900 participants from over 80 countries This proceedings volume of the eleventh meeting in the series held in Berlin in 2006 highlights and records the developments and applications of Einstein s theory in diverse areas ranging from

fundamental field theories to particle physics astrophysics and cosmology made possible by unprecedented technological developments in experimental and observational techniques from space ground and underground observatories It provides a broad sampling of the current work in the field especially relativistic astrophysics including many reviews by leading figures in the research community

Current Trends in Relativistic Astrophysics Leonardo Fernández-Jambrina, Luis Manuel González-Romero, 2008-01-11 The present volume contains the expanded lectures of a meeting on relativistic astrophysics the goal of which was to provide a modern introduction to specific aspects of the field for young researchers as well as for nonspecialists from related areas Particular emphasis is placed on the theory of black holes and evolution relativistic stars and jet hydrodynamics as well as the production and detection of gravitational waves The book is complemented by further contributions and animation supplied on the accompanying CD ROM

General Relativity: The most beautiful of theories Carlo Rovelli, 2015-02-17 Generalising Newton's law of gravitation general relativity is one of the pillars of modern physics While applications in the beginning were restricted to isolated effects such as a proper understanding of Mercury's orbit the second half of the twentieth century saw a massive development of applications These include cosmology gravitational waves and even very practical results for satellite based positioning systems as well as different approaches to unite general relativity with another very successful branch of physics quantum theory On the occasion of general relativity's centennial leading scientists in the different branches of gravitational research review the history and recent advances in the main fields of applications of the theory which was referred to by Lev Landau as the most beautiful of the existing physical theories Contributions from Andy C Fabian Anthony L Lasenby Astrophysical black Holes Neil Ashby GNSS and other applications of General Relativity Gene Byrd Arthur Chernin Pekka Teerikorpi Mauri Vaaltonen Observations of general Relativity at strong and weak limits Ignazio Ciufolini General Relativity and dragging of inertial frames Carlo Rovelli The strange world of quantum spacetime

Gravitation and cosmology. Proceedings of the Spanish Relativity Meeting Alberto Lobo, 2003

2001: A Relativistic Spacetime Odyssey: Experiments And Theoretical Viewpoints On General Relativity And Quantum Gravity - Proceedings Of The 25th Johns Hopkins Workshop On Current Problems In Particle Theory Ignazio Ciufolini, Daniele Dominici, Luca Lusanna, 2003-01-16 This volume offers a comprehensive overview of our understanding of gravity at both the experimental and the theoretical level Critical reviews by experts cover topics ranging from astrophysics anisotropies in the cosmic microwave background gamma ray bursts neutron stars and astroparticles cosmology the status of gravitational wave sources and detectors verification of Newton's law at short distances the equivalence principle gravito magnetism measurement theory time machines and the foundations of Einstein's theory to string theory and loop quantum gravity

Relativistic Geodesy Dirk Puetzfeld, Claus Lämmerzahl, 2019-02-09 Due to steadily improving experimental accuracy relativistic concepts based on Einstein's theory of Special and General Relativity are playing an increasingly important role in modern geodesy This book offers an introduction to the emerging field of relativistic geodesy and covers topics ranging from

the description of clocks and test bodies to time and frequency measurements to current and future observations Emphasis is placed on geodetically relevant definitions and fundamental methods in the context of Einstein's theory e.g. the role of observers use of clocks definition of reference systems and the geoid use of relativistic approximation schemes Further the applications discussed range from chronometric and gradiometric determinations of the gravitational field to the latest satellite experiments The impact of choices made at a fundamental theoretical level on the interpretation of measurements and the planning of future experiments is also highlighted Providing an up to the minute status report on the respective topics discussed the book will not only benefit experts but will also serve as a guide for students with a background in either geodesy or gravitational physics who are interested in entering and exploring this emerging field

Relativistic Celestial Mechanics of the Solar System Sergei Kopeikin, Michael Efroimsky, George Kaplan, 2011-09-26 This authoritative book presents the theoretical development of gravitational physics as it applies to the dynamics of celestial bodies and the analysis of precise astronomical observations In so doing it fills the need for a textbook that teaches modern dynamical astronomy with a strong emphasis on the relativistic aspects of the subject produced by the curved geometry of four dimensional spacetime The first three chapters review the fundamental principles of celestial mechanics and of special and general relativity This background material forms the basis for understanding relativistic reference frames the celestial mechanics of N body systems and high precision astrometry navigation and geodesy which are then treated in the following five chapters The final chapter provides an overview of the new field of applied relativity based on recent recommendations from the International Astronomical Union The book is suitable for teaching advanced undergraduate honors programs and graduate courses while equally serving as a reference for professional research scientists working in relativity and dynamical astronomy The authors bring their extensive theoretical and practical experience to the subject Sergei Kopeikin is a professor at the University of Missouri while Michael Efroimsky and George Kaplan work at the United States Naval Observatory one of the world's premier institutions for expertise in astrometry celestial mechanics and timekeeping

Fundamentals of Astrometry Jean Kovalevsky, P. Kenneth Seidelmann, 2011-12-18 This text details the fundamentals of astrometry at milli and micro arcsecond accuracies

2001, a Relativistic Spacetime Odyssey Ignazio Ciufolini, Daniele Dominici, L. Lusanna, 2003 This volume offers a comprehensive overview of our understanding of gravity at both the experimental and the theoretical level Critical reviews by experts cover topics ranging from astrophysics anisotropies in the cosmic microwave background gamma ray bursts neutron stars and astroparticles cosmology the status of gravitational wave sources and detectors verification of Newton's law at short distances the equivalence principle gravito magnetism measurement theory time machines and the foundations of Einstein's theory to string theory and loop quantum gravity

Lasers, Clocks and Drag-Free Control Hansjörg Dittus, Claus Lämmerzahl, Slava G. Turyshev, 2009-09-02 Over the next decade the gravitational physics community will benefit from dramatic improvements in many technologies critical to testing

gravity Highly accurate deep space navigation interplanetary laser communication interferometry and metrology high precision frequency standards precise pointing and attitude control together with drag free technologies will revolutionize the field of experimental gravitational physics The centennial of the general theory of relativity in 2015 will motivate a significant number of experiments designed to test this theory with unprecedented accuracy The purpose of the contributions in this book written by international experts is to explore the possibilities for the next 20 years for conducting gravitational experiments in space that would utilize both entirely new and highly improved existing capabilities

A Novel Approach to Relativistic Dynamics Yaakov Friedman, Tzvi Scarr, 2023-02-18 This self contained monograph provides a mathematically simple and physically meaningful model which unifies gravity electromagnetism optics and even some quantum behavior The simplicity of the model is achieved by working in the frame of an inertial observer and by using a physically meaningful least action principle The authors introduce an extension of the Principle of Inertia This gives rise to a simple physically meaningful action function Visualizations of the geometry are obtained by plotting the action function These visualizations may be used to compare the geometries of different types of fields Moreover a new understanding of the energy momentum of a field emerges The relativistic dynamics derived here properly describes motion of massive and massless objects under the influence of a gravitational and or an electromagnetic field and under the influence of isotropic media The reader will learn how to compute the precession of Mercury the deflection of light and the Shapiro time delay Also covered is the relativistic motion of binary stars including the generation of gravitational waves a derivation of Snell's Law and a relativistic description of spin We derive a complex valued prepotential of an electromagnetic field The prepotential is similar to the wave function in quantum mechanics The mathematics is accessible to students after standard courses in multivariable calculus and linear algebra For those unfamiliar with tensors and the calculus of variations these topics are developed rigorously in the opening chapters The unifying model presented here should prove useful to upper undergraduate and graduate students as well as to seasoned researchers

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