

Zero Black Hole 102

Claudio Teitelboim,Jorge Zanelli

Fundamental Physics and Physics Education Research Burra G. Sidharth, Jesús Carnicer Murillo, Marisa Michelini, Carmen Perea, 2020-11-11 This book highlights selected contributions presented at the 15th annual international symposium Frontiers of Fundamental Physics (FFP15), with the aim of informing readers about the most important recent advances in fundamental physics and physics education research. The FFP series offers a platform for physicists from around the world to present their latest theories and findings. The latest symposium was held in Orihuela, Spain and covered diverse fields of research, including gravitation, astronomy and astrophysics, physics of complex systems, high-energy physics, and mathematical physics. Considerable attention was also paid to physics education research, teacher education in physics, and the popularization of physics. In a knowledge-based society, research into fundamental physics plays a vital role in both the advancement of human knowledge and the development of new technologies. Presenting valuable new peer-reviewed contributions submitted from 15 countries, this book will appeal to a broad audience of scholars and researchers.

Dynamics of Extremal Black Holes Stefanos Aretakis, 2018-11-02 This Brief presents in a self-contained, non-technical and illustrative fashion the state-of-the-art results and techniques for the dynamics of extremal black holes. Extremal black holes are, roughly speaking, either maximally rotating or maximally charged. Astronomical observations suggest that near-extremal (stellar or supermassive) black holes are ubiquitous in the universe. The book presents various recently discovered characteristic phenomena (such as the horizon instability) that have enhanced our understanding of the dynamics of extremal black holes. The topics should be of interest to pure mathematicians, theoretical physicists and astronomers. This book provides common ground for communication between these scientific communities.

Asymptotic Safety and Black Holes Kevin Falls, 2013-11-26 One of the open challenges in fundamental physics is to combine Einstein's theory of general relativity with the principles of quantum mechanics. In this thesis, the question is raised whether metric quantum gravity could be fundamental in the spirit of Steven Weinberg's seminal asymptotic safety conjecture, and if so, what are the consequences for the physics of small, possibly Planck-size black holes? To address the first question, new techniques are provided which allow, for the first time, a self-consistent study of high-order polynomial actions including up to 34 powers in the Ricci scalar. These novel insights are then exploited to explain quantum gravity effects in black holes, including their horizon and causal structure, conformal scaling, evaporation, and the thermodynamics of quantum space-time. Results indicate upper limits on black hole temperature, and the existence of small black holes based on asymptotic safety for gravity and thermodynamical arguments.

Introduction to General Relativity, Black Holes, and Cosmology Yvonne Choquet-Bruhat, 2015 General Relativity is a beautiful geometric theory, simple in its mathematical formulation but leading to numerous consequences with striking physical interpretations: gravitational waves, black holes, cosmological models, and so on. This introductory textbook is written for mathematics students interested in physics and physics students interested in exact mathematical formulations (or for anyone with a scientific mind who is curious to know more of the world we live in), recent remarkable experimental and observational results which confirm the theory are clearly described and no specialised physics knowledge is required. The mathematical level of Part A is aimed at undergraduate students and could be the basis for a course on General Relativity. Part B is more advanced, but still does not require sophisticated mathematics. Based on Yvonne Choquet-Bruhat's more advanced text, *General Relativity and the Einstein Equations*, the aim of this book is to give with precision, but as simply as possible, the foundations and main consequences of General Relativity. The first five chapters from *General Relativity and the Einstein Equations* have been updated with new sections and chapters on black holes, gravitational waves, singularities, and the Reissner-Nordstrom and interior Schwarzschild solutions. The rigour behind this book will provide readers with the perfect preparation to follow the great mathematical progress in the actual development, as well as the ability to model, the latest astrophysical and cosmological observations. The book presents basic General Relativity and provides a basis for understanding and using the fundamental theory.

Supermassive Black Holes Minas Kafatos, 1988-02-18

Black Holes Derek J. Raine, Edwin George Thomas, 2005 Providing an introduction to the fascinating subject of black holes, this book is suitable for advanced undergraduates and first year postgraduates. It offers an introduction to the exact solutions of Einstein's vacuum field equations, describing spherical and axisymmetric (rotating) black holes.

Growing Black Holes: Accretion in a Cosmological Context Andrea Merloni, Sergei V. Nayakshin, Rashid A. Sunyaev, 2005-04-25 Supermassive black holes are now believed to play an important role in the evolution of the Universe. Every respectable galaxy hosts in its center a black hole that appears to regulate the growth of the galaxy itself. In this book, leading experts in the field review the most recent theoretical and observational results on the following topics: - formation and growth of the first black holes in the Universe and their role in the formation and evolution of galaxies - the physics of black-hole accretion and the production of relativistic jets - binary black-hole mergers and gravitational radiation. Theoretical work is supplemented by the most recent exciting results from space and ground based observatories. This volume is useful research and reference tool for the entire astrophysical community.

Black Holes Derek Raine, Edwin Thomas, 2014-09-30 This book provides an accessible introduction to the fascinating and topical subject of black holes. It bridges the gap between popular non-mathematical expositions and advanced research texts, using simple undergraduate level calculations and the most basic knowledge of relativity to explain current research. This means the theory can be understood by a wide audience of physicists, including those who are not necessarily interested in learning higher-level mathematical techniques. The third edition links more of the current research trends to fundamental aspects of the physics of black holes. Additionally: It provides an accessible introduction to the two most useful exact solutions of Einstein's vacuum field equations describing black holes, using only basic tensor calculus Explores the geometry and physical properties of these spacetimes through the motion of particles and light Explains the use of different coordinate systems, maximal extensions and Penrose diagrams Discusses the association of the surface area of a black hole with its entropy and shows that, with the introduction of quantum mechanics, black holes cease to be black and can radiate. This allows black holes to satisfy the laws of thermodynamics and thus be consistent with the rest of physics Includes over 100 problems and solutions This new edition introduces a chapter dedicated to a selection of recent results. Existing chapters have been updated and new explanatory material has been added to aid in the understanding of the physics. This book is recommended reading for advanced undergraduate students and first-year postgraduates who will find it a useful stepping-stone to the advanced literature.

Compact Stellar X-ray Sources Walter Lewin, Michiel van der Klis, 2006-04-06 X-ray astronomy is the prime available window on astrophysical compact objects: black holes, neutron stars and white dwarfs. In this book, prominent experts provide a comprehensive overview of the observations and astrophysics of these objects. This is a valuable reference for graduate students and active researchers.

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.

Path Integrals in Physics M Chaichian, A Demichev, 2001-07-01 The path integral approach has proved extremely useful for the understanding of the most complex problems in quantum field theory, cosmology, and condensed matter physics. Path Integrals in Physics: Volume II, Quantum Field Theory, Statistical Physics and other Modern Applications covers the fundamentals of path integrals, both the Wiener and Feynman types, and their many applications in physics. The book deals with systems that have an infinite number of degrees of freedom. It discusses the general physical background and concepts of the path integral approach used, followed by a detailed presentation of the most typical and important applications as well as problems with either their solutions or hints how to solve them. Each chapter is self-contained and can be considered as an independent textbook. It provides a comprehensive, detailed, and systematic account of the subject suitable for both students and experienced researchers.

Formation and Evolution of Black Holes in the Galaxy Gerald Edward Brown, Chang-Hwan Lee, 2003 In published papers H A Bethe and G E Brown worked out the collapse of large stars and supernova explosions. They went on to evolve binaries of compact stars, finding that in the standard scenario the first formed neutron star always went into a black hole in common envelope evolution. C-H Lee joined them in the study of black hole binaries and gamma ray bursts. They found the black holes to be the fossils of the gamma ray bursts. From their properties they could reconstruct features of the burst and of the accompanying hypernova explosions. This invaluable book contains 23 papers on astrophysics, chiefly on compact objects, written over 23 years. The papers are accompanied by illuminating commentary. In addition there is an appendix on kaon condensation which the editors believe to be relevant to the equation of state in neutron stars, and to explain why black holes are formed at relatively low masses.

The Black Hole, 25 Years After Claudio Teitelboim, Jorge Zanelli, 1998-06-25 This is a most important review volume providing a summary of black hole physics in the last 25 years. It contains a series of lectures presented to celebrate John Archibald Wheeler's invention of the term "black hole" a quarter of a century ago. In 11 lucid articles, a distinguished group of world experts discuss current issues in black hole physics, ranging from epistemological considerations to recent developments connecting black hole thermodynamics and string theory. Contents: The Path Integral Formulation of Gravitational Thermodynamics (J D Brown & J W York) Self-Dual Solutions of 2+1 Einstein Gravity with a Negative Cosmological Constant (O Coussaert & M Henneaux) String Black Holes (J Ellis) The Vacuum Fluctuation Problem in Black Hole Radiance (F Englert) "Absurd and Ridiculous": The Collapse of Solidity (W Israel) Descent into the Maelstrom: The Black Hole Interior (W Israel) Some Speculations About Black Hole Entropy in String Theory (L Susskind) Action and Entropy of Black Holes (C Teitelboim) Horizon Operator Approach to Black Hole Quantization (G 't Hooft) The Black Hole, 25 Years Later (J A Wheeler) Lectures on Black Hole Quantum Mechanics: Lectures 1 & 2 (F Wilczek) Lectures on Black Hole Quantum Mechanics: Lectures 3 & 4 (F Wilczek) Readership: Astrophysicists. Keywords: Black Hole; Thermodynamics; String Theory; Astrophysics; Quantum Mechanics

Regular Black Holes Cosimo Bambi, 2023-07-06 Black holes are one of the most fascinating predictions of general relativity. They are the natural product of the complete gravitational collapse of matter and today we have a body of observational evidence supporting the existence of black holes in the Universe. However, general relativity predicts that at the center of black holes there are spacetime singularities, where predictability is lost and standard physics breaks down. It is widely believed that spacetime singularities are a symptom of the limitations of general relativity and must be solved within a theory of quantum gravity. Since we do not have yet any mature and reliable candidate for a quantum gravity theory, researchers have studied toy-models of singularity-free black holes and of singularity-free gravitational collapses in order to explore possible implications of the yet unknown theory of quantum gravity. This book reviews all main models of regular black holes and non-singular gravitational collapses proposed in the literature, and discuss the theoretical and observational implications of these scenarios.

Black Holes Kip S. Thorne, Kirk S. Thorne, Richard H. Price, Douglas A. MacDonald, 1986-01-01 A pedagogical introduction to the physics of black holes. The membrane paradigm represents the four-dimensional spacetime of the black hole's event horizon as a two-dimensional membrane in three-dimensional space, allowing the reader to understand and compute the behavior of black holes in complex astrophysical environments.

Exploring Black Holes Edwin F. Taylor, John Archibald Wheeler, 2000 The metric helps to answer every scientific question about (nonquantum) features of spacetime surrounding a black hole, every possible question about trajectories of light and satellites around the black hole as well as around more familiar centers of attraction such as Earth and Sun. The metric for a rotating black hole may tell us about quasars, the most powerful steady energy sources in the Universe. The black-hole metric brings preliminary insights about the history and structure of the Cosmos. Using the metric requires only algebra, elementary differential calculus, and a handful of integrals. This modest mathematics opens the subject to the interested person and paves the way to a deeper study of general relativity for one who will discover new truth about this strange and beautiful Universe, our home.--
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Literature 1976, Part 2 S. Böhme, Ute Esser, Professor Dr. Walter Fricke, U. Güntzel-Lingner, I. Heinrich, D. Krahn, Dr. Lutz D. Schmadel, G. Zech, 2013-04-18 Astronomy and Astrophysics Abstracts, which has appeared in semi-annual volumes since 1969, is devoted to the recording, summarizing and indexing of astronomical publications throughout the world. It is prepared under the auspices of the International Astronomical Union (according to a resolution adopted at the 14th General Assembly in 1970). Astronomy and Astrophysics Abstracts aims to present a comprehensive documentation of literature in all fields of astronomy and astrophysics. Every effort will be made to ensure that the average time interval between the date of receipt of the original literature and publication of the abstracts will not exceed eight months. This time interval is near to that achieved by monthly abstracting journals, compared to which our system of accumulating abstracts for about six months offers the advantage of greater convenience for the user. Volume 18 contains literature published in 1976 and received before March 1, 1977; some older literature which was received late and which is not recorded in earlier volumes is also included.

Focus on Black Hole Research Paul V. Kreidler, 2006 A black hole is a point of extreme mass in space-time with a radius, or event horizon, inside of which all electromagnetic radiation (including light) is trapped by gravity. A black hole is an extremely compact object, collapsed by gravity which has overcome electric and nuclear forces. It is believed that stars appreciably larger than the Sun, once they have exhausted all their nuclear fuel, collapse to form black holes: they are black because no light escapes their intense gravity. Material attracted to a black hole, though, gains enormous energy and can radiate part of it before being swallowed up. Some astronomers believe that enormously massive black holes exist in the centre of our galaxy and of other galaxies. This new book brings together leading research from throughout the world.

Superradiance Richard Brito, Vitor Cardoso, Paolo Pani, 2020-08-21 This book focuses on one mechanism in black hole physics which has proven to be universal, multifaceted and with a rich phenomenology: rotational superradiance. This is an energy extraction process, whereby black holes can deposit their rotational energy in their surroundings, leading to Penrose processes, black-hole bombs, and even Hawking radiation. Black holes are key players in star formation mechanisms and as engines to some of the most violent events in our universe. Their simplicity and compactness make them perfect laboratories, ideally suited to probe new fields or modifications to the theory of gravity. Thus, black holes can also be used to probe some of the most important open problems in physics, including the nature of dark matter or the strong CP problem in particle physics. This monograph is directed to researchers and graduate students and provides a unified view of the subject, covering the theoretical machinery, experimental efforts in the laboratory, and astrophysics searches. It is focused on recent developments and works out a number of novel examples and applications, ranging from fundamental physics to astrophysics. Non-specialists with a scientific background should also find this text a valuable resource for understanding the critical issues of contemporary research in black-hole physics. This second edition stresses the role of ergoregions in superradiance, and completes its catalogue of energy-extraction processes. It presents a unified description of instabilities of spinning black holes in the presence of massive fields. Finally, it covers the first experimental observation of superradiance, and reviews the state-of-the-art in the searches for new light fields in the universe using superradiance as a mechanism.

The Rise and Fall of the Black Hole Paradigm Abhas Mitra,2021-01-22 Black holes have turned out to be the cornerstone of both physics and popular belief. But what if we were to realize that exact black holes cannot exist, even though their existence is apparently suggested by exact general relativistic solutions, and Roger Penrose won the 2020 Nobel Prize in Physics ‘for the discovery that black hole formation is a robust prediction of the general theory of relativity’? While it might seem far-fetched to claim so, it will be worth remembering that the finest theoretical physicists like Albert Einstein and Paul Dirac did not believe in black holes, and Stephen Hawking finally thought that there are no exact black holes. While the black hole paradigm has become commonplace in popular consciousness, in the last decade, noise has consistently grown about the many physical effects which can inhibit the formation of exact mathematical black holes. In *The Rise and Fall of the Black Hole Paradigm*, Abhas Mitra shows us how, much before these developments, he had proven why the so-called black holes must only be black hole pretenders. He identified these black hole candidates to be Magnetospheric Eternally Collapsing Objects (MECOs) and, along with Darryl J. Leiter and Stanley L. Robertson, generalized them. Recent evidence for the existence of strong magnetic fields around so-called black holes may provide confirmations of his claim.

Enjoying the Song of Expression: An Psychological Symphony within **Zero Black Hole 102**

In some sort of consumed by displays and the ceaseless chatter of fast conversation, the melodic splendor and psychological symphony developed by the written term frequently diminish in to the back ground, eclipsed by the relentless noise and disruptions that permeate our lives. But, located within the pages of **Zero Black Hole 102** a marvelous literary prize brimming with raw emotions, lies an immersive symphony waiting to be embraced. Crafted by a masterful composer of language, that captivating masterpiece conducts viewers on an emotional journey, well unraveling the hidden tunes and profound impact resonating within each cautiously constructed phrase. Within the depths of the poignant review, we shall investigate the book is key harmonies, analyze their enthralling publishing design, and surrender ourselves to the profound resonance that echoes in the depths of readers souls.

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