

Black Hole Recordings

Andreas Eckart, Rainer Schödel, Christian Michael Straubmeier

Black Hole Blues and Other Songs from Outer Space Janna Levin,2017-04-18 The authoritative story of Rainer Weiss, Barry Barish, and Kip Thorne's Nobel Prize-winning discovery of gravitational waves—by an eminent theoretical astrophysicist and award-winning writer. With A New Preface In 1916, Einstein predicted the presence of gravitational waves. One century later, we are recording the first sounds from space, evidence of the waves' existence caused by the collision of two black holes. An authoritative account of the headline-making discovery by theoretical astrophysicist and award-winning writer Janna Levin, Black Hole Blues and Other Songs from Outer Space recounts the fascinating story of the obsessions, aspirations, and trials of the scientists who embarked on an arduous fifty-year endeavor to capture these elusive waves Five decades after the experiment was dreamed up, the team races to intercept a wisp of sound with two colossal machines, hoping to succeed in time for the centenary of Einstein's most radical idea. With unprecedented access to the surprises, disappointments, achievements, and risks in this remarkable story, Janna Levin's absorbing account offers a portrait of modern science that is unlike anything we've seen before.

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.

Black Hole Survival Guide Janna Levin,2022-03-15 From the acclaimed author of Black Hole Blues and Other Songs from Outer Space—an authoritative and accessible guide to the most alluring and challenging phenomena of contemporary science. [Levin will] take you on a safe black hole trip, an exciting travel story enjoyed from your chair's event horizon." —Boston Globe Through her writing, astrophysicist Janna Levin has focused on making the science she studies not just comprehensible but also, and perhaps more important, intriguing to the nonscientist. In this book, she helps us to understand and find delight in the black hole—perhaps the most opaque theoretical construct ever imagined by physicists—illustrated with original artwork by American painter and photographer Lia Halloran. Levin takes us on an evocative exploration of black holes, provoking us to imagine the visceral experience of a black hole encounter. She reveals the influence of black holes as they populate the universe, sculpt galaxies, and even infuse the whole expanse of reality that we inhabit. Lively, engaging, and utterly unique, Black Hole Survival Guide is not just informative—it is, as well, a wonderful read from first to last.

Formation Of The First Black Holes Muhammad Latif,Dominik Schleicher,2019-04-26 The formation of the first supermassive black holes is one of the main open questions in our understanding of high-redshift structure formation. In this book, we aim to provide a summary of state-of-the-art modern research on this topic, exploring the formation of massive black holes from a fluid-dynamical, stellar-dynamical and chemical perspective. The book thus presents a solid theoretical foundation, a comparison with current observations and future observational perspectives with upcoming missions such as the Square Kilometre Array, the European Extremely Large Telescope, the Euclid satellite as well as possible detections via gravitational waves.

Black Hole Physics V. Frolov,I. Novikov,2012-12-06 It is not an exaggeration to say that one of the most exciting predictions of Einstein's theory of gravitation is that there may exist black holes: putative objects whose gravitational fields are so strong that no physical bodies or signals can break free of their pull and escape. The proof that black holes do exist, and an analysis of their properties, would have a significance going far beyond astrophysics. Indeed, what is involved is not just the discovery of yet another even if extremely remarkable, astro physical object, but a test of the correctness of our understanding of the properties of space and time in extremely strong gravitational fields. Theoretical research into the properties of black holes, and into the possible corollaries of the hypothesis that they exist, has been carried out with special vigor since the beginning of the 1970's. In addition to those specific features of black holes that are important for the interpretation of their possible astrophysical manifestations, the theory has revealed a number of unexpected characteristics of physical interactions involving black holes. By the middle of the 1980's a fairly detailed understanding had been achieved of the properties of the black holes, their possible astrophysical manifestations, and the specifics of the various physical processes involved. Even though a completely reliable detection of a black hole had not yet been made at that time, several objects among those scrutinized by astrophysicists were considered as strong candidates to be confirmed as being black holes.

Black Holes and Super Gravity IntroBooks,2018-02-18 Black holes, supernovas, Dark matter, and the micro gravity or macro gravity related researches and studies for analysis can be of inbound curiosity to any professional in any subject stream. These are lessons about nature that is sure to trigger the curiosity in anyone. Shedding some light on these vitalities related to black holes, formation, creation, and deterioration is the objective here. Enormous amount of gases in the black holes, in varied capacities, and the unpredictable size and nature of the black holes, with super gravity, make the studies to be too complicated to understand precisely about the physical properties of the black holes. To describe the difference between gravitational and inertial mass, brings in the need to know on when an astronaut in orbit experiences apparent weightlessness. That is the way to understand on how black holes are formed for anyone else too.

Black Holes Mario Livio,Anton M. Koekemoer,2011-02-24 Black holes, once considered to be of purely theoretical interest, play an important role in observational astronomy and a range of astrophysical phenomena. This volume is based on a meeting held at the Space Telescope Science Institute, which explored the many aspects of black hole astrophysics. Written by world experts in areas of stellar-mass, intermediate-mass and supermassive black holes, these review papers provide an up-to-date overview of developments in this field. Topics discussed range from black hole entropy and the fate of information to supermassive black holes at the centers of galaxies, and from the possibility of producing black holes in collider experiments to the measurements of black hole spins. This is an invaluable resource for researchers currently working in the field, and for graduate students interested in this active and growing area of research.

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.

Black Holes: A Very Short Introduction Katherine Blundell,2015 Black holes are a source of wide fascination. In this Very Short Introduction, Katherine Blundell addresses a variety of questions, including what a black hole actually is, how they are characterised and discovered, to what happens if you get too close to one. Explaining how black holes form and grow across cosmic time, as well as how many there are in the Universe, she also considers how black holes interact with matter - by stealing material that belongs to other stars, and how black holes give rise to quasars and other spectacular, yet exotic phenomena in outer space.

The Care and Feeding of a Pet Black Hole Michelle Cuevas,2018-09-11 A girl's friendship with a lonely black hole leads her to face her own sadness in this original, funny, and touching middle grade novel for fans of Crenshaw and Flora & Ulysses. When eleven-year-old Stella Rodriguez shows up at NASA to request that her recording be included in Carl Sagan's Golden Record, something unexpected happens: A black hole follows her home, and sets out to live in her house as a pet. The black hole swallows everything he touches, which is challenging to say the least—but also turns out to be a convenient way to get rid of those items that Stella doesn't want around. Soon the ugly sweaters her aunt has made for her all disappear within the black hole, as does the smelly class hamster she's taking care of, and most important, all the reminders of her dead father that are just too painful to have around. It's not until

Stella, her younger brother, Cosmo, the family puppy, and even the bathroom tub all get swallowed up by the black hole that Stella comes to realize she has been letting her own grief consume her. And that's not the only thing she realizes as she attempts to get back home. This is an astonishingly original and funny adventure with a great big heart.

Black Holes, Cosmology And Extra Dimensions (Second Edition) Kirill A Bronnikov, Sergey G Rubin, 2021-06-29 Assuming basic knowledge of special and general relativity, this book guides the reader to problems under consideration in modern research, concerning black holes, wormholes, cosmology, and extra dimensions. Its first part is devoted to local strong field configurations (black holes and wormholes) in general relativity and its most relevant extensions: scalar-tensor, f(R), and multidimensional theories. The second part discusses cosmology, including inflation and problems of a unified description of the whole evolution of the universe. The third part concerns multidimensional theories of gravity and contains a number of original results obtained by the authors. Expository work is conducted for a mechanism of symmetries and fundamental constants formation. The original approach to nonlinear multidimensional gravity that is able to construct a unique perspective describing different phenomena is highlighted. Much of the content was previously presented only in journal publications and is new for book contents, e.g., on regular black holes, various scalar field solutions, wormholes and their stability, inflation, clusters of primordial black holes, and multidimensional gravity. The last two topics are added in this new edition of the book. The other chapters are also updated to include new discoveries like the detection of gravitational waves.

Black Hole Chasers Anna Crowley Redding, 2021-10-05 In *Black Hole Chasers*, award-winning investigative journalist Anna Crowley Redding presents the riveting true story of one of the most inspiring scientific breakthroughs of our lifetime—the Event Horizon Telescope team's reveal of the first image of a super massive black hole. In April 2019, the Event Horizon Telescope Team unveiled the first ever image of a super massive black hole. This inspiring scientific breakthrough took years of hard work, innovative thinking, and a level of global cooperation never seen before. The challenge was immense. The goal was impossible. They would need a telescope as big as the earth itself. The technology simply didn't exist. And yet, a multi-national team of scientists was able to show the world an image of something previously unseeable. Based off extensive research and hours interviews with many of the team's ground-breaking scientist, physicists, and mathematicians, *Black Hole Chasers* is a story of unique technological innovation and scientific breakthroughs, but more importantly, it's a story of human curiosity and triumph.

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

Trends in Black Hole Research Paul V. Kreitler, 2006 A black hole is a point of extreme mass in spacetime 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.

The Black Hole at the Center of the Milky Way Andreas Eckart, Rainer Schödel, Christian Michael Straubmeier, 2005 Reviewing the fundamental instrumental techniques and current observational results, this book unveils the mysteries of the physical processes in the central parsec of our Milky Way: the super-massive black hole embedded in a central stellar cluster as well as the gas and dust in the circumnuclear region. The observations described cover the entire electromagnetic spectrum from decimeter radio-waves to high energy X-ray and ?-rays, and a comprehensive summary of up-to-date astrophysical interpretations is given. The emphasis is put on observational techniques, image processing aspects, and a detailed presentation of the most cutting-edge work carried out in the near-infrared wavelength regime. These recent results include both the first orbits of stars around the central black hole and the multiwavelength variability of the central source.

Black Hole Gravito hydromagnetics Brian Punsly, 2013-03-09 A new branch of physics, black hole gravito hydromagnetics (GHM) is developed from the rudiments to the frontiers of research. GHM describes plasma interactions that combine the effects of gravity and a strong magnetic field, in the vicinity (ergosphere) of a rapidly rotating black hole. This topic was created in response to the astrophysical quest to understand the central engines of radio loud extragalactic radio sources. The theory describes a torsional tug of war between rotating ergospheric plasma and the distant asymptotic plasma that extracts the rotational inertia of the black hole.

From Quarks to Black Holes Richard T. Hammond, 2001 This book presents a series of delightful interviews in which natural objects such as an electron, a black hole, a galaxy, and even the vacuum itself, reveal their innermost secrets OCo not only what they are but also how they feel. A hydrogen atom tells us about quantum mechanics and why we live in a non-deterministic world; a black hole explains curved space and naked singularities; and a uranium atom talks of its life on a meteor, its tremendous collision with Earth, and properties of radioactivity OCo all while grappling with its own mortality. A neutron star gives a personal account of its creation and goes on to discuss quasars and other extraordinary astronomical objects, while an iron atom describes its birth in a remote supernova explosion and its series of adventures on Earth, from its early use in wrought iron processes to its time in a human body, and then to its latest misadventures. The book discusses many fundamental issues in physics and, at times, examines the philosophical and moral issues of society. For example, the interview with the quark reveals the nature of color gauge symmetry, which is interwoven with a discussion on truth and beauty, and shows how these concepts play an integral part in physics and nature, while the uranium atom expresses its horror of the development and use of the atomic bomb. Contents: Interview with a Carbon Atom; Interview with an Electron; Interview with Jupiter; Interview with a Black Hole; Interview with a Uranium Atom; Interview with a Fermion and a Boson; Interview with a Star; Interview with a Wimp; Interview with a Comet; Interview with a Spiral Galaxy; Interview with a Neutrino; Interview with a Hydrogen Atom; Interview with a Neutron; Interview with a Quark; Interview with a Tachyon; Interview with a Quasar; Interview with Antimatter; Interview with Iron; Interview with a Muon; Interview with a Neutron Star; Interview with a String; Interview with Vacuum. Readership: Scientists and anyone interested in the natural world.

Prisons of Light Kitty Ferguson, 2013-01-31 What is a black hole? Could we survive a visit to one? Perhaps even venture inside? What would we find? Have we yet discovered any real black holes? And what do black holes teach us about what physicist John Archibald Wheeler called "the deep, happy, mysteries of the universe"? These are just a few of the tantalizing questions examined in this jargon-free review of one of the most fascinating topics in modern science. In search of the answers, we trace a star from its birth to

its death throes, take a fabulous hypothetical journey to the border of a black hole and beyond, spend time with some of the world's leading theoretical physicists and observational astronomers scanning the cosmos for evidence of real black holes, and take a whimsical look at some of the wild ideas black holes have inspired.

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.

Measuring the Angular Momentum of Supermassive Black Holes Laura Brenneman, 2013-06-26 Measuring the spin distribution of supermassive black holes is of critical importance for understanding how these black holes and their host galaxies form and evolve over time, yet this type of study is only in its infancy. This brief describes how astronomers measure spin in supermassive black holes using X-ray spectroscopy. It also reviews the constraints that have been placed on the spin distribution in local, bright active galaxies over the past six years, and the cosmological implications of these constraints. Finally, it summarizes the open questions that remain in this exciting new field of research and points toward future discoveries soon to be made by the next generation of space-based observatories.

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