

MAP OF BLACK HOLES

EMERGE VELOCITY

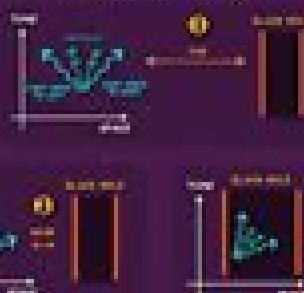


STRUCTURE OF SPACETIME

GRAVITY IS ABOUT THE CURVATURE OF SPACETIME
MORE CURVATURE = STRONGER GRAVITY



SPACE-TIME DIAGRAM



BLACK HOLE CLASSIFICATION

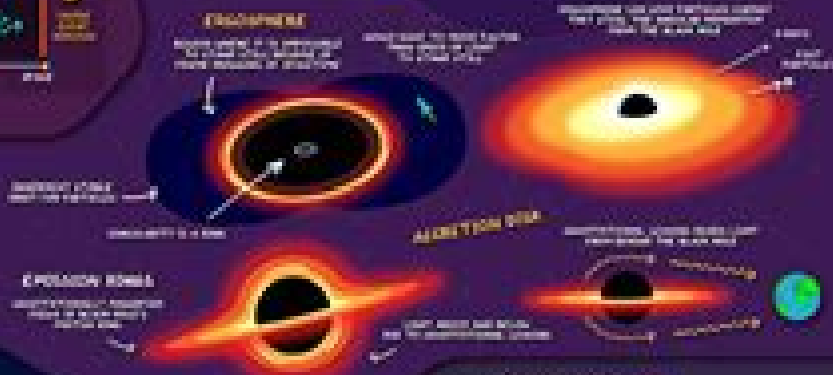
NAME	MASS (SOLAR MASSES)	RADIUS (KM)
SMALL BLACK HOLE	10^{-6} to 10^{-2}	10^{-16} to 10^{-12}
STELLAR BLACK HOLE	5 to 100	10^4 to 10^5
INTERMEDIATE BLACK HOLE	10^3 to 10^5	10^6 to 10^8
SUPERMASSIVE BLACK HOLE	10^6 to 10^9	10^7 to 10^{10}

THE ANATOMY OF A BLACK HOLE

NON-ROTATING BLACK HOLES



ROTATING BLACK HOLES

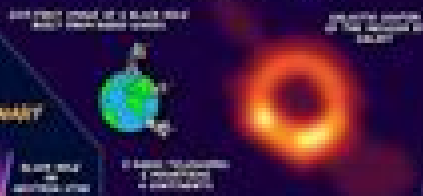


BLACK HOLE CREATION



BLACK HOLE OBSERVATION TECHNIQUES

EVENT HORIZON TELESCOPE



X-RAY BINARY



STREAMER



ORBITING STARS



GRAVITATIONAL LENSING



LASER INTERFEROMETERS



GRAVITATIONAL WAVES



THEORY OF BLACK HOLES

NO-HAIR THEOREM



BLACK HOLE RADIUS



BLACK HOLE THERMODYNAMICS



HEAVENLY RADIATION



POSTHOLE



EXOTIC OBJECTS



WORMHOLE PRINCIPLE



Physics Of Black Holes

Stefanos Aretakis



Physics Of Black Holes:

Physics of Black Holes I. Novikov, V. Frolov, 2013-03-09 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 and signals can break free of their pull and escape Even though a completely reliable discovery of a black hole has not yet been made several objects among those scrutinized by astrophysicists will very likely be conformed as black holes The proof that they 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 astrophysical object but a test of the correctness of our understanding 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 1970s 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 now a fairly detailed understanding has been achieved of the properties of the black holes their possible astrophysical manifestations and the specifics of the various physical processes involved Furthermore profound links were found between black hole theory and such seemingly very distant fields as thermodynamics information theory and quantum theory

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

Physics of Black Holes Eleftherios Papantonopoulos, 2009-08-29 Black Holes are still considered to be among the most mysterious and fascinating objects in our universe Awaiting the era of gravitational astronomy much progress in theoretical modeling and understanding of classical and quantum black holes has already been achieved The present volume serves as a tutorial high level guided tour through the black hole landscape information paradox and blackhole thermodynamics numerical simulations of black hole formation and collisions braneworld scenarios and stability of black holes with respect to perturbations are treated in great detail as is their possible occurrence at the LHC An outgrowth of a topical and tutorial summer school this extensive set of carefully edited notes has been set up with the aim of constituting an advanced level multi authored textbook which meets the needs of both postgraduate students and young researchers in the fields of modern cosmology astrophysics and quantum field theory

Black Hole Physics Daniel Grumiller, Mohammad Mehdi Sheikh-Jabbari, 2022-11-07 This textbook gradually introduces the reader to several topics related to black hole physics with a didactic approach It starts with the most basic black hole solution the Schwarzschild metric and discusses the basic classical properties of black hole solutions as seen by different probes Then it reviews various theorems about black hole

properties as solutions to Einstein gravity coupled to matter fields conserved charges associated with black holes and laws of black hole thermodynamics Next it elucidates semiclassical and quantum aspects of black holes which are relevant in ongoing and future research The book is enriched with many exercises and solutions to assist in the learning The textbook is designed for physics graduate students who want to start their research career in the field of black holes postdocs who recently changed their research focus towards black holes and want to get up to date on recent and current research topics advanced researchers intending to teach or learn basic and advanced aspects of black hole physics and the associated mathematical tools Besides general relativity the reader needs to be familiar with standard undergraduate physics like thermodynamics quantum mechanics and statistical mechanics Moreover familiarity with basic quantum field theory in Minkowski space is assumed The book covers the rest of the needed background material in the main text or the appendices

Black Hole Physics V. Frolov, I. Novikov, 1998-11-30 Introduces the physics of black holes and the methods employed in it and reviews the main results of this branch of physics Frolov physics U of Alberta and Novikov theoretical astrophysics U of Copenhagen focus on questions that have been answered relatively recently Among the topics treated are space time of stationary black holes general theory of black holes black hole perturbations numerics electrodynamics black holes in unified theories of gravity quantum black holes final states of evaporating black holes and the information loss puzzle Special attention is paid to the role of black holes in astrophysics and observational evidence of black hole existence Many exotic subjects linked with black holes such as white holes wormholes and time machines are discussed Appendices cover mathematical aspects of general relativity and black holes and quantum field theory in curved spacetime Annotation copyrighted by Book News Inc Portland OR [Black Holes](#) Derek J. Raine, Edwin George Thomas, 2010 This introduction to the fascinating subject of black holes fills a significant gap in the literature which exists between popular non mathematical expositions and advanced textbooks at the research level It is designed for advanced undergraduates and first year postgraduates as a useful stepping stone to the advanced literature The book provides an accessible introduction to the exact solutions of Einstein's vacuum field equations describing spherical and axisymmetric rotating black holes The geometry and physical properties of these spacetimes are explored through the motion of particles and light The use of different coordinate systems maximal extensions and Penrose diagrams is explained The association of the surface area of a black hole with its entropy is discussed and it is shown that with the introduction of quantum mechanics black holes cease to be black and can radiate This result allows black holes to satisfy the laws of thermodynamics and thus be consistent with the rest of physics In this new edition the problems in each chapter have been revised and solutions are provided The text has been expanded to include new material on wormholes and clarify various other issues *Quantum Black Holes* Xavier Calmet, Bernard Carr, Elizabeth Winstanley, 2013-11-22 Written by foremost experts this short book gives a clear description of the physics of quantum black holes The reader will learn about quantum black holes in four and higher dimensions primordial black holes

the production of black holes in high energy particle collisions Hawking radiation black holes in models of low scale quantum gravity and quantum gravitational aspects of black holes

Black Holes Jean-Pierre Luminet, 1992-08-28 Black holes are undoubtedly one of the most fascinating discoveries of modern astronomy and their description one of the most daring intellectual feats of modern times They have already become legendary forming the basis of many myths fantasies and science fiction movies Are they really the monsters which devour light and stars bottomless celestial pits into which all matter is sucked and crushed Are they an observable reality or are they just hypothetical objects from the theory of relativity In answering such questions the author takes us on a fabulous journey through space and time Dr Jean Pierre Luminet is an astronomer at Meudon Observatory in France a specialist on the subject of black holes and has also acquired a reputation for being a gifted writer and communicator In this book he makes the subject of black holes accessible to any interested reader who will need no mathematical background

The Shadow of Black Holes Arne Grenzebach, 2016-05-07 This book introduces an analytic method to describe the shadow of black holes As an introduction it presents a survey of the attempts to observe the shadow of galactic black holes Based on a detailed discussion of the Pleba ski Demia ski class of space times the book derives analytical formulas for the photon regions and for the boundary curve of the shadow as seen by an observer in the domain of outer communication It also analyzes how the shadow depends on the motion of the observer For all cases the photon regions and shadows are visualized for various values of the parameters Finally it considers how the analytical formulas can be used for calculating the horizontal and vertical angular diameters of the shadow and estimates values for the black holes at the centers of our Galaxy near Sgr A and of the neighboring galaxy M87

[The Little Book of Black Holes](#) Steven S. Gubser, Frans Pretorius, 2017-09-25 Dive into a mind bending exploration of the physics of black holes Black holes predicted by Albert Einstein's general theory of relativity more than a century ago have long intrigued scientists and the public with their bizarre and fantastical properties Although Einstein understood that black holes were mathematical solutions to his equations he never accepted their physical reality a viewpoint many shared This all changed in the 1960s and 1970s when a deeper conceptual understanding of black holes developed just as new observations revealed the existence of quasars and X ray binary star systems whose mysterious properties could be explained by the presence of black holes Black holes have since been the subject of intense research and the physics governing how they behave and affect their surroundings is stranger and more mind bending than any fiction After introducing the basics of the special and general theories of relativity this book describes black holes both as astrophysical objects and theoretical laboratories in which physicists can test their understanding of gravitational quantum and thermal physics From Schwarzschild black holes to rotating and colliding black holes and from gravitational radiation to Hawking radiation and information loss Steven Gubser and Frans Pretorius use creative thought experiments and analogies to explain their subject accessibly They also describe the decades long quest to observe the universe in gravitational waves which recently resulted in the LIGO observatories

detection of the distinctive gravitational wave chirp of two colliding black holes the first direct observation of black holes existence The Little Book of Black Holes takes readers deep into the mysterious heart of the subject offering rare clarity of insight into the physics that makes black holes simple yet destructive manifestations of geometric destiny **The Physics of Accretion onto Black Holes** Maurizio Falanga, Tomaso Belloni, Piergiorgio Casella, Marat Gilfanov, Peter Jonker, Andrew King, 2014-10-28 Provides a comprehensive summary on the physical models and current theory of black hole accretion growth and mergers in both the supermassive and stellar mass cases This title reviews in depth research on accretion on all scales from galactic binaries to intermediate mass and supermassive black holes Possible future directions of accretion are also discussed The following main themes are covered a historical perspective physical models of accretion onto black holes of all masses black hole fundamental parameters and accretion jets and outflows An overview and outlook on the topic is also presented This volume summarizes the status of the study of astrophysical black hole research and is aimed at astrophysicists and graduate students working in this field Originally published in Space Science Reviews Vol 183 1 4 2014

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 **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 **Introduction to**

Black Hole Astrophysics Gustavo E. Romero, Gabriela S. Vila, 2013-09-14 This book is based on the lecture notes of a one semester course on black hole astrophysics given by the author and is aimed at advanced undergraduate and graduate students with an interest in astrophysics The material included goes beyond that found in classic textbooks and presents details on astrophysical manifestations of black holes In particular jet physics and detailed accounts of objects like microquasars active galactic nuclei gamma ray bursts and ultra luminous X ray sources are covered as well as advanced topics like black holes in alternative theories of gravity The author avoids unnecessary technicalities and to some degree the book is self contained The reader will find some basic general relativity tools in Chapter 1 The appendices provide some additional mathematical details that will be useful for further study and a guide to the bibliography on the subject Black Holes Explained James Negus, 2018-07-15 On December 26 2015 the Laser Interferometer Gravitational Wave Observatory LIGO detected gravitational waves generated from merging black holes for the first time in human history Through an engaging easily accessible approach the origins dynamics and ultimate fate of black holes are thoroughly unraveled so that students without a scientific background can grasp complex physics theories This book supports the Next Generation Science Standards emphasis on scientific collection and analysis of data and evidence based theories by discussing the methods research universities and space agencies use to explore black holes *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 *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

Black Holes, White Dwarfs, and Neutron Stars Stuart L. Shapiro, Saul A. Teukolsky, 2008-11-20 This self contained textbook brings together many different branches of physics e g nuclear physics solid state physics particle physics hydrodynamics relativity to analyze compact objects The latest astronomical data is assessed Over 250 exercises **Black Holes** Kip S. Thorne, Richard H. Price, Douglas A. MacDonald, 1986 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

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Physics Of Black Holes Introduction

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