

# Mathematical Theory of Black Holes Ismp 69

Subrahmanyan Chandrasekhar

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# Mathematical Theory Of Black Holes Ismp 69

**Piotr T. Chruściel**



## Mathematical Theory Of Black Holes Ismp 69:

*The Mathematical Theory of Black Holes* Subrahmanyan Chandrasekhar, 1998 The theory of black holes is the most simple consequence of Einstein's relativity theory Dealing with relativity theory this book details one of the most beautiful areas of mathematical physics the theory of black holes It represents a personal testament to the work of the author who spent several years working out the subject matter WorldCat **Mathematical Reviews**, 2004 **Who's who in America**, 2003 *The Mathematical Theory of Black Holes* Chandrasekhar, 1993 **Selected Papers, Volume 6** Subrahmanyan Chandrasekhar, 1991-04-09 This is the first of six volumes collecting significant papers of the distinguished astrophysicist and Nobel laureate S Chandrasekhar His work is notable for its breadth as well as for its brilliance his practice has been to change his focus from time to time to pursue new areas of research The result has been a prolific career full of discoveries and insights some of which are only now being fully appreciated Chandrasekhar has selected papers that trace the development of his ideas and that present aspects of his work not fully covered in the books he has periodically published to summarize his research in each area *The Mathematical Theory of Black Holes* S. Chandrasekhar, 1983 **Mathematical Theory of Black Holes in Higher Dimensions** Petya Nedkova, Stoytcho Yazadjiev, 2024-08-16 This book portrays the mathematical theory which lies behind black hole solutions in spacetimes with an extra dimension Step by step the authors build a comprehensive picture of the main concepts and tools necessary to understand these geometries In this way the book addresses questions like How do we describe black holes in higher dimensions How can we construct such geometries explicitly as exact solutions to the field equations How many independent solutions can exist and how are they classified The book concentrates on five dimensional stationary and axisymmetric spacetimes in electro vacuum and systematically introduces the most important black geometries which can arise in these settings The authors follow the natural progress of the research area by initially describing the first results that were obtained intuitively and sparked interest in the community Then the elaborate mathematical techniques are introduced which allow to systematically construct exact black hole solutions Topics like the integrability of the theory the hidden symmetries of the field equations the available Bäcklund transformations and solution generation techniques based on the inverse scattering method are covered The last part of the book is devoted to uniqueness theorems showing how to classify the black hole spacetimes and distinguish the non equivalent ones The book is not just a mere collection of facts but a methodological description of the most important mathematical techniques and constructions in an active research area The discussion is pedagogical and all the methods are demonstrated on a variety of examples Most of the book is adapted to the level of a graduate student possessing a basic knowledge of general relativity and differential equations and can serve as a practical guide for quickly acquiring the specific concepts and calculation techniques Both authors have contributed to the research area by their original results and share their own experience and perspective *Geometry of Black Holes* Piotr T. Chruściel, 2020-07-31 Black holes present one of the most

fascinating predictions of Einstein's general theory of relativity. There is strong evidence of their existence through observation of active galactic nuclei including the centre of our galaxy, observations of gravitational waves and others. There exists a large scientific literature on black holes including many excellent textbooks at various levels. However, most of these steer clear from the mathematical niceties needed to make the theory of black holes a mathematical theory. Those which maintain a high mathematical standard are either focused on specific topics or skip many details. The objective of this book is to fill this gap and present a detailed mathematically oriented extended introduction to the subject. The book provides a wide background to the current research on all mathematical aspects of the geometry of black hole spacetimes. **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. Selected Papers: The mathematical theory of black holes and colliding plane waves, *Introduction to Black Hole Physics*

Valeri P. Frolov, Andrei Zelnikov, 2011-09-23. This book is about black holes, one of the most intriguing objects of modern theoretical physics and astrophysics. For many years, black holes have been considered as interesting solutions of the Theory of General Relativity with a number of amusing mathematical properties. Now, after the discovery of astrophysical black holes, the Einstein gravity has become an important tool for their study. This self-contained textbook combines physical, mathematical and astrophysical aspects of black hole theory. Pedagogically presented, it contains standard material on black holes as well as relatively new subjects such as the role of hidden symmetries in black hole physics and black holes in spacetimes with large extra dimensions. The book will appeal to students and young scientists interested in the theory of black holes. **Black Hole Uniqueness Theorems**

Markus Heusler, 1996-07-25. A self-contained introduction to the mathematical theory of black holes. **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

**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

**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

*The Little Book of Black Holes* Steven S. Gubser, Frans Pretorius, 2017-10-10 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 **Three Lectures on Complexity and Black Holes** Leonard Susskind, 2020-05-11

These three lectures cover a certain aspect of complexity and black holes namely the relation to the second law of thermodynamics The first lecture describes the meaning of quantum complexity the analogy between entropy and complexity and the second law of complexity Lecture two reviews the connection between the second law of complexity and the interior of black holes Prof L Susskind discusses how firewalls are related to periods of non increasing complexity which typically only occur after an exponentially long time The final lecture is about the thermodynamics of complexity and uncomplexity as a resource for doing computational work The author explains the remarkable power of one clean qubit in both computational terms and in space time terms This book is intended for graduate students and researchers who want to take the first steps towards the mysteries of black holes and their complexity 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 **An Introduction to Black Holes, Information and the String Theory**

**Revolution** Leonard Susskind, James Lindesay, 2005 A unique exposition of the foundations of the quantum theory of black holes including the impact of string theory the idea of black hole complementarity and the holographic principle Aims to educate the physicist or student of physics who is not an expert on string theory on the revolution that has grown out of black hole physics and string theory Black Holes Sean Alan Hayward, 2013 Black holes once just fascinating theoretical predictions of how gravity warps space time according to Einstein's theory are now generally accepted as astrophysical realities formed by post supernova collapse or as supermassive black holes mysteriously found at the cores of most galaxies powering active galactic nuclei the most powerful objects in the universe Theoretical understanding has progressed in recent decades with a wider realization that local concepts should characterize black holes rather than the global concepts found in textbooks In particular notions such as trapping horizon allow physically meaningful quantities and equations describing how a black hole evolves This has led to discoveries in fields as diverse as classical and numerical general relativity differential geometry thermodynamics quantum field theory and quantum gravity There is heretofore no one volume which covers all the

main aspects so this volume collects together summaries and recent research each chapter written by an expert or experts in a given field This is intended for readers at a graduate level upwards who wish to learn about the wide range of research concerning black holes

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