Lecture Notes in Physics

Petya Nedkova Stoytcho Yazadjiev

Mathematical Theory of Black Holes in Higher Dimensions



Mathematical Theory Of Black Holes

B. Bertotti, F. de Felice, Alessandro Pascolini

Mathematical Theory Of Black Holes:

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 The Mathematical Theory of Black Holes Subrahmanyan Chandrasekhar, 1983 This volume has become one of the modern classics of relativity theory When it was written in 1983 there was little physical evidence for the existence of black holes Recent discoveries have only served to underscore the elegant theory developed here and the book remains one of the clearest statements of the relevant **The Mathematical Theory of Black Holes** Chandrasekhar,1993 **Mathematical Theory of Black** mathematics **Holes in Higher Dimensions** Petya Nedkova, Stoytcho Yazadjiev, 2024-08-16 This book portraits 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 sparkled 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 B cklund 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 guickly 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

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 General Relativity and Gravitation B. Bertotti, F. de Felice, Alessandro Pascolini, 2012-12-06 The Tenth International Conference on General Relativity and Gravitation GR10 was held from July 3 to July 8 1983 in Padova Italy These Conferences take place every three years under the auspices of the International Society on General Relativity and Gravitation with the purpose of assessing the current research in the field critically discussing the prog ress made and disclosing the points of paramount im portance which deserve further investigations The Conference was attended by about 750 scientists active in the various subfields in which the current research on gravitation and general relativity is ar ticulated and more than 450 communications were sub mitted In order to fully exploit this great occur rence of experience and creative capacity and to pro mote individual contributions to the collective know ledge the Conference was given a structure of work shops on the most active topics and of general sessions in which the Conference was addressed by invited speakers on general reviews or recent major advance ments of the field The individual communications were collected in a two volume publication made available to the participants upon their arrival and widely distributed to Scientific Institutions and Research Centres The Mathematical Theory of Black Holes Subrahmanyan Chandrasekhar, 1992 Now in paperback this book by Nobel prizewinner S Chandrasekhar is devoted to the mathematical theory of the space times surrounding the black holes of nature Since the general theory of relativity provides a single unique family of solutions the Kerr family for black holes the subject is mathematically a very well defined one Besides the analysis discloses a richness rarely encountered in mathematical physics A preliminary chapter provides the basic mathematical tools The principal chapters deal with the Schwarzchild solution describing static spherically symmetric black holes. The geometry of these space times is analysed in terms of their geodesics A particular feature of the book is the collection of illustrations exhibiting the various classes of geodesics Mathematical Theory of Scattering Resonances Semyon Dyatlov, Maciej Zworski, 2019-09-10 Scattering resonances generalize bound states eigenvalues for systems in which energy can scatter to infinity A typical resonance has a rate of oscillation just as a bound state does and a rate of decay Although the notion is intrinsically dynamical an elegant mathematical formulation comes from considering meromorphic continuations of Green s functions The poles of these meromorphic continuations capture physical information by identifying the rate of oscillation with the real part of a pole and the rate of decay with its imaginary part An example from mathematics is given by the zeros of the Riemann zeta function they are essentially the resonances of the Laplacian on the modular surface The Riemann hypothesis then states that the decay rates for the modular surface are all either or An example from physics is given by quasi normal modes of black holes which appear in long time asymptotics of gravitational waves This book concentrates mostly on the simplest case of scattering by compactly supported potentials but provides pointers to modern literature where

more general cases are studied It also presents a recent approach to the study of resonances on asymptotically hyperbolic manifolds The last two chapters are devoted to semiclassical methods in the study of resonances **The Mathematical Theory of Cosmic Strings** M.R. Anderson,2015-05-06 This book is a comprehensive survey of the current state of knowledge about the dynamics and gravitational properties of cosmic strings treated in the idealized classical approximation as line singularities described by the Nambu Goto action The author's purpose is to provide a standard reference to all work that has been published since the mid 1

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