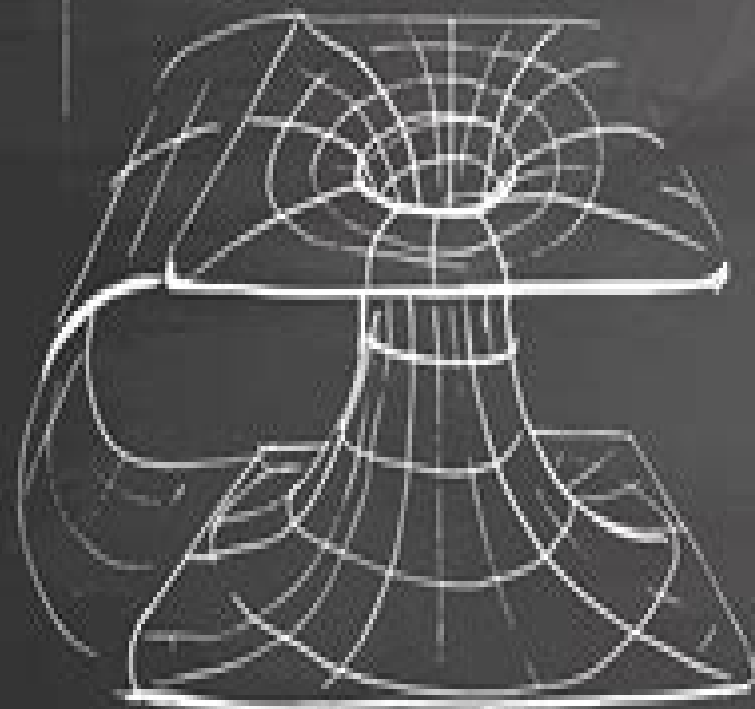$$G_{\mu\nu} + \Lambda g_{\mu\nu} = \frac{8\pi G}{c^4} T_{\mu\nu}$$ Black hole

wormholes

$$ds^2 = -\left(1 - \frac{2M(r)}{r}\right)dt^2 + \left(1 - \frac{2M(r)}{r}\right)^{-1}dr^2 + r^2 d\Omega^2$$

schwareschild solution

$$\theta = \pi/2$$
$$t = constant$$

$$ds^2 = -c^2 dt^2 + dL^2 + (k^2 + L^2)(d\theta^2 + \sin^2\theta \, d\varphi^2)$$

$$ds^2 = -c^2\left(1 - \frac{2GM}{rc^2}\right)dt^2 + \frac{dr^2}{1 - \frac{2GM}{rc^2}} + r^2(d\theta^2 + \sin^2\theta \, d\varphi^2)$$

$$u^2 - v^2 = \left(\frac{r}{2M} - 1\right)e^{r/2M}$$

$$\frac{v}{u} = \begin{cases} \coth\frac{t}{4M} \\ 1 \\ \tanh\frac{t}{4M} \end{cases} \text{ for } r \begin{cases} < 2M \\ = 2M \\ > 2M \end{cases}$$

$$ds^2 = \frac{32 M^3}{r}e^{-r/2M}(-dv^2 + du^2) + r^2 d\Omega^2$$

white hole

# [Math Theory Hole](#)

**Marco Cascella**

**Math Theory Hole:**

Mathematical Theory of Black 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 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 **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 cleareststatements of the relevant mathematics **The Mathematical Theory of Black Holes** Chandrasekhar,1993 Woods Hole Mathematics: Perspectives In Mathematics And Physics Robert Clark Penner,Nils Tongring,2004-12-10 The central theme of this volume is the contemporary mathematics of geometry and physics but the work also discusses the problem of the secondary structure of proteins and an overview of arc complexes with proposed applications to macromolecular folding is given Woods Hole has played such a vital role in both my mathematical and personal life that it is a great pleasure to see the mathematical tradition of the 1964 meeting resurrected forty years later and as this volume shows resurrected with new vigor and hopefully on a regular basis I therefore consider it a signal honor to have been asked to introduce this volume with a few reminiscences of that meeting forty years ago Introduction by R Bott Wolf Prize Winner 2000 **Progress in Computational Physics**

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