

LORENTZIAN WORMHOLES

***From Einstein
to Hawking***

Matt Visser

Lorentzian Wormholes From Einstein To Hawking Aip Series In Computational And Applied Mathematical Physics

KJ Lindholm-Leary



Lorentzian Wormholes From Einstein To Hawking Aip Series In Computational And Applied Mathematical Physics:

Lorentzian Wormholes Matt Visser, 1995 Drawing on pivotal work by Einstein Wheeler Thorne Hawking and others Matt Visser charts the development and current state of Lorentzian wormhole physics Dr Visser shows that by pushing established physical theories to their limits it is possible to deduce the true physics of such exotica as wormholes and time travel The physical framework he uses is derived from one of the major research frontiers of modern theoretical physics quantum gravity the intersection of classical Einstein gravity and quantum field theory About the Author Matt Visser is Research Assistant Professor at Washington University St Louis He has lectured in the United States and abroad on topics including wormhole physics time travel and the chronology protection conjecture He has conducted postdoctoral research at both the University of Southern California and at Los Alamos National Laboratory *Wormholes, Warp Drives and Energy Conditions* Francisco S. N. Lobo, 2017-05-16 Top researchers in the field of gravitation present the state of the art topics outlined in this book ranging from the stability of rotating wormholes solutions supported by ghost scalar fields modified gravity applied to wormholes the study of novel semi classical and nonlinear energy conditions to the applications of quantum effects and the superluminal version of the warp drive in modified spacetime Based on Einstein's field equations this cutting edge research area explores the more far fetched theoretical outcomes of General Relativity and relates them to quantum field theory This includes quantum energy inequalities flux energy conditions and wormhole curvature and sheds light on not just the theoretical physics but also on the possible applications to warp drives and time travel This book extensively explores the physical properties and characteristics of these exotic spacetimes describing in detail the general relativistic geometries that generate closed timelike curves Advanced Concepts in Particle and Field Theory Tristan Hübsch, 2023-02-09 This 2015 advanced textbook now OA provides students with a unified understanding of all matter at a fundamental level Fifteenth Marcel Grossmann Meeting, The: On Recent Developments In Theoretical And Experimental General Relativity, Astrophysics, And Relativistic Field Theories - Proceedings Of The Mg15 Meeting On General Relativity (In 3 Volumes) Elia S Battistelli, Robert T Jantzen, Remo Ruffini, 2022-05-10 The three volumes of the proceedings of MG15 give a broad view of all aspects of gravitational physics and astrophysics from mathematical issues to recent observations and experiments The scientific program of the meeting included 40 morning plenary talks over 6 days 5 evening popular talks and nearly 100 parallel sessions on 71 topics spread over 4 afternoons These proceedings are a representative sample of the very many oral and poster presentations made at the meeting Part A contains plenary and review articles and the contributions from some parallel sessions while Parts B and C consist of those from the remaining parallel sessions The contents range from the mathematical foundations of classical and quantum gravitational theories including recent developments in string theory to precision tests of general relativity including progress towards the detection of gravitational waves and from supernova

cosmology to relativistic astrophysics including topics such as gamma ray bursts black hole physics both in our galaxy and in active galactic nuclei in other galaxies and neutron star pulsar and white dwarf astrophysics Parallel sessions touch on dark matter neutrinos X ray sources astrophysical black holes neutron stars white dwarfs binary systems radiative transfer accretion disks quasars gamma ray bursts supernovas alternative gravitational theories perturbations of collapsed objects analog models black hole thermodynamics numerical relativity gravitational lensing large scale structure observational cosmology early universe models and cosmic microwave background anisotropies inhomogeneous cosmology inflation global structure singularities chaos Einstein Maxwell systems wormholes exact solutions of Einstein s equations gravitational waves gravitational wave detectors and data analysis precision gravitational measurements quantum gravity and loop quantum gravity quantum cosmology strings and branes self gravitating systems gamma ray astronomy cosmic rays and the history of general relativity

American Book Publishing Record ,1995 *The British National Bibliography* Arthur James Wells,2001 **Forthcoming Books** Rose Arny,1996-10 **Mathematical Reviews** ,1996 *Subject Guide to Books in Print* ,1991 **Books in Print** ,1991 Das Schweizer Buch ,1997 **Wormholes Explained** Richard

Gaughan,2018-07-15 A wormhole is a tube like distortion of time and space connecting distant places in the universe Wormholes have been featured in many movies but can they really exist Wormholes are a prediction of scientific theories and the precision of mathematics allows them to be described even before they have ever been seen Untangling complex physics theories with accessible language and captivating imagery this book explores the development and evaluation of scientific theories behind wormholes Supporting the Next Generation Science Standards emphasis on scientific collection and analysis of data and evidence based theories this book will help students grasp the importance of mathematical models of reality laying the groundwork for a deeper understanding of the nature of science **Black Holes, Wormholes and Time**

Machines Jim Al-Khalili,2002-01-01 Do you know What might happen if you fall into a black hole That the Universe does not have an edge That the reason it gets dark at night is proof of the Big Bang That cosmic particles time travel through the atmosphere defying death That our past present and future might all coexist out there With two remarkable ideas Albert Einstein revolutionized our view of the Universe His first was that nothing can travel faster than light the ultimate speed limit This simple fact leads to the unavoidable conclusion that space and time must be linked together forever as Spacetime With his second monumental insight Einstein showed how Spacetime is warped and stretched by the gravity of all objects in the Universe and even punctured by black holes But such possible twisting of Spacetime allowed a magic not even Einstein could have imagined time travel Theoretical physicist Jim Al Khalili finally lays science fiction to rest as he opens up Einstein s Universe Leading us gently and light heartedly through the dizzying world of our space and time he even gives us the recipe for a time machine capable of taking us Back to the Future to Alice s Wonderland or on a trip with the Terminator **Black Holes & Time Warps** Kip Thorne,2014-09-22 Winner of the 2017 Nobel Prize in Physics Ever since Albert Einstein s general

theory of relativity burst upon the world in 1915 some of the most brilliant minds of our century have sought to decipher the mysteries bequeathed by that theory a legacy so unthinkable in some respects that even Einstein himself rejected them Which of these bizarre phenomena if any can really exist in our universe Black holes down which anything can fall but from which nothing can return wormholes short spacewarps connecting regions of the cosmos singularities where space and time are so violently warped that time ceases to exist and space becomes a kind of foam gravitational waves which carry symphonic accounts of collisions of black holes billions of years ago and time machines for traveling backward and forward in time Kip Thorne along with fellow theorists Stephen Hawking and Roger Penrose a cadre of Russians and earlier scientists such as Oppenheimer Wheeler and Chandrasekhar has been in the thick of the quest to secure answers In this masterfully written and brilliantly informed work of scientific history and explanation Dr Thorne a Nobel Prize winning physicist and the Feynman Professor of Theoretical Physics Emeritus at Caltech leads his readers through an elegant always human tapestry of interlocking themes coming finally to a uniquely informed answer to the great question what principles control our universe and why do physicists think they know the things they think they know Stephen Hawking's *A Brief History of Time* has been one of the greatest best sellers in publishing history Anyone who struggled with that book will find here a more slowly paced but equally mind stretching experience with the added fascination of a rich historical and human component Winner of the Phi Beta Kappa Award in Science

A New Class of Solutions to the Einstein-equations Lorentzian Wormholes with Rotating Throat László Fórizs,1997 *Black Holes, Wormholes and Time Machines, Second Edition* Jim

Al-Khalili,2011-12-08 Bringing the material up to date *Black Holes Wormholes and Time Machines Second Edition* captures the new ideas and discoveries made in physics since the publication of the best selling first edition While retaining the popular format and style of its predecessor this edition explores the latest developments in high energy astroparticle physics and Big Bang cosmology The book continues to make the ideas and theories of modern physics easily understood by anyone from researchers to students to general science enthusiasts Taking you on a journey through space and time author Jim Al Khalili covers some of the most fascinating topics in physics today including Black holes Space warps The Big Bang Time travel Wormholes Parallel universes Professor Al Khalili explains often complex scientific concepts in simple nontechnical terms and imparts an appreciation of the cosmos helping you see how time traveling may not be so far fetched after all

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

Black Holes and Time Warps Kip S. Thorne, 1994 Stephen Hawking provides the introduction to a work that examines such bizarre phenomena as black holes wormholes singularities gravitational waves and time machines exploring the fundamental principles that control the universe

Wormhole Physics William Brown, AI, 2025-02-27 Wormhole Physics explores the intriguing possibility of shortcuts through spacetime delving into the theoretical underpinnings and practical challenges of wormholes Rooted in Einstein's theory of general relativity the book examines how gravity understood as the curvature of spacetime might allow for these cosmic tunnels A key insight involves the hypothetical exotic matter possessing negative mass energy density which may be crucial for stabilizing traversable wormholes The book navigates these complex concepts in an accessible manner requiring no prior expert knowledge The book progresses systematically beginning with the fundamentals of general relativity and various types of wormholes like Schwarzschild and Lorentzian wormholes It then addresses the necessity and challenges surrounding exotic matter A chapter dedicated to quantum mechanics explores its potential impact on wormhole stability and traversability Ultimately the book considers potential applications such as interstellar and time travel while candidly assessing the technological hurdles that remain This book distinguishes itself by offering a balanced and critical perspective on wormhole theory emphasizing the underlying physics over sensationalism It highlights the ongoing research refining our understanding of wormholes potential and limitations emphasizing the distinction between mathematical possibility and physical plausibility

The Black Hole War Leonard Susskind, 2008-07-07 The Black Hole War is the thrilling story of Susskind's effort to reconcile Stephen Hawking's revolutionary theories of black holes with his own sense of reality an effort that would eventually result in Hawking admitting he was wrong

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Introduction

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