

"This delightful account is packed with insights. . . . [Wheeler] is a consummately American physicist whose wide-ranging career spans much of a disturbing century."

—Michael Rorfat, *New York Times Book Review*

# GEONS, BLACK HOLES & QUANTUM FOAM

A LIFE IN  
PHYSICS



JOHN ARCHIBALD  
WHEELER

with KENNETH FORD

# Geons Black Holes And Quantum Foam A Life In Physics

**Delio, Ilia**



## **Geons Black Holes And Quantum Foam A Life In Physics:**

**Geons, Black Holes, and Quantum Foam: A Life in Physics** John Archibald Wheeler, 2010-06-18 Winner of the American Institute of Physics Science Writing Award This delightful account is packed with insights Wheeler is a consummately American physicist whose wide ranging career spans much of a disturbing century Michael Riordan New York Times Book Review He studied with Niels Bohr taught Richard Feynman and boned up on relativity with his friend and colleague Albert Einstein John Archibald Wheeler s fascinating life brings us face to face with the central characters and discoveries of modern physics He was the first American to learn of the discovery of nuclear fission later coined the term black hole led a renaissance in gravitation physics and helped to build Princeton University into a mecca for physicists From nuclear physics to quantum theory to relativity and gravitation Wheeler s work has set the trajectory of research for half a century His career has brought him into contact with the most brilliant minds of his field Fermi Bethe Rabi Teller Oppenheimer and Wigner are among those he called colleagues and friends In this rich autobiography Wheeler reveals in fascinating detail the excitement of each discovery the character of each colleague and the underlying passion for knowledge that drives him still *Chaos, Information, And The Future Of Physics: The Seaman-rossler Dialogue With Information Perspectives By Burgin And Seaman* William Seaman, Otto E Rossler, Mark Burgin, 2023-06-22 The main part of the book consists of the dialogue between physicist Otto R ssler and artist and AI researcher Bill Seaman with the commentaries disclosing information perspective by information scientist Mark Burgin and Bill Seaman In this dialogue R ssler and Seaman discuss concepts surrounding R ssler s major research over his lifetime Additionally each research topic is linked to the set of papers and books published by R ssler and other related collaborative researchers The goal is to delineate an intellectual directory for future researchers The discussed topics being transdisciplinary in nature cross many fields in science and technology A comprehensive historical bibliography is also included The work explores many fields germane to theoretical science as R ssler was often quite early in developing these fields and interacting with many famous scientists This work pertains to information theory which has often been left out of the historical literature Burgin as an expert in information theory is providing an information perspective on this dialogue adding historical discussion and relevant scientific and mathematical underpinnings of the discussed ideas His observations are complemented by Seaman who presents the synthesis of artistic and scientific outlook Addendum contains articles describing R ssler s relationships to colleagues from multiple fields a parable by R ssler and papers related to R ssler s research and theoretical models of processes in the universe *General Relativity and John Archibald Wheeler* Ignazio Ciufolini, Richard A. Matzner, 2010-06-22 Observational and experimental data pertaining to gravity and cosmology are changing our view of the Universe General relativity is a fundamental key for the understanding of these observations and its theory is undergoing a continuing enhancement of its intersection with observational and experimental data These data include direct observations and experiments carried out in

our solar system among which there are direct gravitational wave astronomy frame dragging and tests of gravitational theories from solar system and spacecraft observations This book explores John Archibald Wheeler s seminal and enduring contributions in relativistic astrophysics and includes the General Theory of Relativity and Wheeler s influence recent developments in the confrontation of relativity with experiments the theory describing gravitational radiation and its detection in Earth based and space based interferometer detectors as well as in Earth based bar detectors the mathematical description of the initial value problem in relativity and applications to modeling gravitational wave sources via computational relativity the phenomenon of frame dragging and its measurement by satellite observations All of these areas were of direct interest to Professor John A Wheeler and were seminally influenced by his ideas

**Lumen Naturae** Matilde Marcolli,2020-05-26 Exploring common themes in modern art mathematics and science including the concept of space the notion of randomness and the shape of the cosmos This is a book about art and a book about mathematics and physics In *Lumen Naturae* the title refers to a purely immanent non supernatural form of enlightenment mathematical physicist Matilde Marcolli explores common themes in modern art and modern science the concept of space the notion of randomness the shape of the cosmos and other puzzles of the universe while mapping convergences with the work of such artists as Paul Cezanne Mark Rothko Sol LeWitt and Lee Krasner Her account focusing on questions she has investigated in her own scientific work is illustrated by more than two hundred color images of artworks by modern and contemporary artists Thus Marcolli finds in still life paintings broad and deep philosophical reflections on space and time and connects notions of space in mathematics to works by Paul Klee Salvador Dal and others She considers the relation of entropy and art and how notions of entropy have been expressed by such artists as Hans Arp and Fernand L ger and traces the evolution of randomness as a mode of artistic expression She analyzes the relation between graphical illustration and scientific text and offers her own watercolor decorated mathematical notebooks Throughout she balances discussions of science with explorations of art using one to inform the other She employs some formal notation which can easily be skipped by general readers Marcolli is not simply explaining art to scientists and science to artists she charts unexpected interdependencies that illuminate the universe

**Discrete Causal Theory** Benjamin F. Dribus,2017-04-26 This book evaluates and suggests potentially critical improvements to causal set theory one of the best motivated approaches to the outstanding problems of fundamental physics Spacetime structure is of central importance to physics beyond general relativity and the standard model The causal metric hypothesis treats causal relations as the basis of this structure The book develops the consequences of this hypothesis under the assumption of a fundamental scale with smooth spacetime geometry viewed as emergent This approach resembles causal set theory but differs in important ways for example the relative viewpoint emphasizing relations between pairs of events and relationships between pairs of histories is central The book culminates in a dynamical law for quantum spacetime derived via generalized path summation

**The Fabric of the Cosmos** Brian Greene,2007-12-18 NATIONAL BESTSELLER From one of

the world's leading physicists and author of the Pulitzer Prize finalist *The Elegant Universe* comes an astonishing ride through the universe *The New York Times* that makes us look at reality in a completely different way Space and time form the very fabric of the cosmos Yet they remain among the most mysterious of concepts Is space an entity Why does time have a direction Could the universe exist without space and time Can we travel to the past Greene has set himself a daunting task to explain non intuitive mathematical concepts like String Theory the Heisenberg Uncertainty Principle and Inflationary Cosmology with analogies drawn from common experience From Newton's unchanging realm in which space and time are absolute to Einstein's fluid conception of spacetime to quantum mechanics entangled arena where vastly distant objects can instantaneously coordinate their behavior Greene takes us all regardless of our scientific backgrounds on an irresistible and revelatory journey to the new layers of reality that modern physics has discovered lying just beneath the surface of our everyday world

*My Einstein* John Brockman, 2007-08-14 In this fascinating volume today's foremost scientists discuss their own versions and visions of Einstein how he has influenced their worldviews their ideas their science and their professional and personal lives These twenty four essays are a testament to the power of scientific legacy and are essential reading for scientist and layperson alike Contributors include Roger Highfield on the Einstein myth John Archibald Wheeler on his meetings with Einstein Gino C Segrè Lee Smolin and Anton Zeilinger on Einstein's difficulties with quantum theory Leon M Lederman on the special theory of relativity Frank J Tipler on why Einstein should be seen as a scientific reactionary rather than a scientific revolutionary

**The Not-Yet God** Delio, Ilia, 2023-09-15 A Christian theological engagement with evolutionary theory quantum theory and relational holism through the works of Teilhard de Chardin and Carl Jung

Semiotics Continues to Astonish Paul Copley, 2011 A fully fledged doctrine of signs with many horizons for the future was the result of Thomas A Sebeok's work in the twentieth century This volume using the testimonies of key witnesses and participants in the semiotic project offers a picture of how Sebeok through his development of knowledge of endosemiotics phytosemiotics biosemiotics and sociosemiotics enabled semiotics in general to redraw the boundaries of science and the humanities as well as nature and culture

*On the Origin of Time* Thomas Hertog, 2024-03-05 NEW YORK TIMES BESTSELLER Stephen Hawking's closest collaborator offers the intellectual superstar's final thoughts on the cosmos a dramatic revision of the theory he put forward in *A Brief History of Time* This superbly written book offers insight into an extraordinary individual the creative process and the scope and limits of our current understanding of the cosmos Lord Martin Rees Perhaps the biggest question Stephen Hawking tried to answer in his extraordinary life was how the universe could have created conditions so perfectly hospitable to life In order to solve this mystery Hawking studied the big bang origin of the universe but his early work ran into a crisis when the math predicted many big bangs producing a multiverse countless different universes most of which would be far too bizarre to harbor life Holed up in the theoretical physics department at Cambridge Stephen Hawking and his friend and collaborator Thomas Hertog worked on this problem for

twenty years developing a new theory of the cosmos that could account for the emergence of life Peering into the extreme quantum physics of cosmic holograms and venturing far back in time to our deepest roots they were startled to find a deeper level of evolution in which the physical laws themselves transform and simplify until particles forces and even time itself fades away This discovery led them to a revolutionary idea The laws of physics are not set in stone but are born and co evolve as the universe they govern takes shape As Hawking s final days drew near the two collaborators published their theory which proposed a radical new Darwinian perspective on the origins of our universe On the Origin of Time offers a striking new vision of the universe s birth that will profoundly transform the way we think about our place in the order of the cosmos and may ultimately prove to be Hawking s greatest legacy

**The 4D Spiral Spacetimes Toryx & Helyx - Prime Elements of the Multiverse** Vladimir Ginzburg,2018-05-25 This book describes abstract and applied mathematics of the unique properties of 4D spiral spacetimes called toryx and helyx There is a good reason for studying the mathematics of these two spacetimes Their unique properties provide them with a capability to be the prime elements of nature In that capacity their potential role in nature would be comparable with a role of the DNA double helices discovered by James Watson and Francis Crick in 1953 The DNA double helices contain genetic codes defining the properties of both organic entities and living organisms whereas both toryx and helyx contain generic codes defining the properties of matter and radiation entities of the Universe Also similar are the locations of these codes The genetic codes of DNA are located inside of cells of all organic entities and living organisms whereas the generic codes of toryces and helyces reside inside of all elementary matter and radiation particles the building blocks of the Universe

**Religion and Science: The Basics** Philip Clayton,2018-09-20 Religion and science are arguably the two most powerful social forces in the world today But where religion and science were once held to be compatible many people now perceive them to be in conflict This unique book provides the best available introduction to the burning debates in this controversial field Examining the defining questions and controversies renowned expert Philip Clayton presents the arguments from both sides asking readers to decide for themselves where they stand science or religion or science and religion history and philosophy of science the role of scientific and religious ethics modifying genes extending life and experimenting with human subjects religion and the environmental crisis the future of science vs the future of religion Thoroughly updated throughout this second edition explores religious traditions from around the world and provides insights from across the sciences making this book essential reading for all those wishing to come to their own understanding of some of the most important debates of our day

*Essays on the Frontiers of Modern Astrophysics and Cosmology* Santhosh Mathew,2013-11-08 This book is a collection of fourteen essays that describe an inspiring journey through the universe and discusses popular science topics that modern physics and cosmology are struggling to deal with What is our place in the universe and what happens in the magnificent cosmos where we exist for a brief amount of time In an unique way that incorporates mythological and philosophical

perspectives the essays in this work address the big questions of what the universe is how it came into being and where it may be heading This exciting adventure is a rich scientific history of elegant physics mathematics and cosmology as well as a philosophical and spiritual pursuit fueled by the human imagination

**Confronting The Enigma Of Time** John R Fanchi,2023-03-14 In Newton s classical mechanics time played the role of a monotonically increasing evolution parameter Einstein rejected the Newtonian concept and instead identified time as the fourth coordinate of a space time four vector Today scientists are considering different concepts of time as a means of resolving incompatibilities between relativity and quantum mechanics Some view time as an emergent property of a system rather than a fundamental property while others consider two temporal variables The purpose of this book is to examine the role of time in modern physics so that the reader gains an increased awareness of time and its place in our understanding of nature

*The Astronomers' Magic Envelope* Prasenjit Saha,Paul A. Taylor,2018 Working physicists and especially astrophysicists value a good back of the envelope calculation meaning a short elegant computation or argument that starts from general principles and leads to an interesting result This book guides students on how to understand astrophysics using general principles and concise calculations endeavouring to be elegant where possible and using short computer programs where necessary The material proceeds in approximate historical order The book begins with the Enlightenment era insight that the orbits of the planets is easy but the orbit of the Moon is a real headache and continues to deterministic chaos This is followed by a chapter on spacetime and black holes Four chapters reveal how microphysics especially quantum mechanics allow us to understand how stars work The last two chapters are about cosmology bringing us to 21st century developments on the microwave background and gravitational waves

*The Information* James Gleick,2011-03-01 From the bestselling author of the acclaimed Chaos and Genius comes a thoughtful and provocative exploration of the big ideas of the modern era Information communication and information theory Acclaimed science writer James Gleick presents an eye opening vision of how our relationship to information has transformed the very nature of human consciousness A fascinating intellectual journey through the history of communication and information from the language of Africa s talking drums to the invention of written alphabets from the electronic transmission of code to the origins of information theory into the new information age and the current deluge of news tweets images and blogs Along the way Gleick profiles key innovators including Charles Babbage Ada Lovelace Samuel Morse and Claude Shannon and reveals how our understanding of information is transforming not only how we look at the world but how we live A New York Times Notable Book A Los Angeles Times and Cleveland Plain Dealer Best Book of the Year Winner of the PEN E O Wilson Literary Science Writing Award

**Theories of Consciousness** William Seager,2016-02-12 Despite recent strides in neuroscience and psychology that have deepened understanding of the brain consciousness remains one of the greatest philosophical and scientific puzzles The second edition of Theories of Consciousness An Introduction and Assessment provides a fresh and up to date introduction to a variety of approaches to

consciousness and contributes to the current lively debate about the nature of consciousness and whether a scientific understanding of it is possible After an initial overview of the status and prospects of physicalism in the face of the problem of consciousness William Seager explores key themes from Descartes the founder of the modern problem of consciousness He then turns to the most important theories of consciousness identity theories and the generation problem higher order thought theories of consciousness self representational theories of consciousness Daniel Dennett s theory of consciousness attention based theories of consciousness representational theories of consciousness conscious intentionality panpsychism neutral monism Thoroughly revised and expanded throughout this second edition includes new chapters on animal consciousness reflexive consciousness combinatorial forms of panpsychism and neutral monism as well as a significant new chapter on physicalism emergence and consciousness The book s broad scope depth of coverage and focus on key philosophical positions and arguments make it an indispensable text for those teaching or studying philosophy of mind and psychology It is also an excellent resource for those working in related fields such as cognitive science and the neuroscience of consciousness

**The Great Beyond** Paul Halpern,2008-04-21 The concept of multiple unperceived dimensions in the universe is one of the hottest topics in contemporary physics It is essential to current attempts to explain gravity and the underlying structure of the universe The Great Beyond begins with Einstein s famous quarrel with Heisenberg and Bohr whose theories of uncertainty threatened the order Einstein believed was essential to the universe and it was his rejection of uncertainty that drove him to ponder the existence of a fifth dimension Beginning with this famous disagreement and culminating with an explanation of the newest brane approach author Paul Halpern shows how current debates about the nature of reality began as age old controversies and addresses how the possibility of higher dimensions has influenced culture over the past one hundred years

The Great Field John James,2007-11-15 Science has proven that vast domains of energy exist within the material world of our senses In this book therapeutic experience is combined with scientific evidence to create a general theory of how this Great Field is the foundation of everything in the universe including the personal energy we call soul

Evolution of Black Holes in Anti-de Sitter Spacetime and the Firewall Controversy Yen Chin Ong,2015-11-27 This thesis focuses on the recent firewall controversy surrounding evaporating black holes and shows that in the best understood example concerning electrically charged black holes with a flat event horizon in anti de Sitter AdS spacetime the firewall does not arise The firewall which surrounds a sufficiently old black hole threatens to develop into a huge crisis since it could occur even when spacetime curvature is small which contradicts general relativity However the end state for asymptotically flat black holes is ill understood since their curvature becomes unbounded This issue is avoided by working with flat charged black holes in AdS The presence of electrical charge is crucial since black holes inevitably pick up charges throughout their long lifetime These black holes always evolve toward extremal limit and are then destroyed by quantum gravitational effects This happens sooner than the time required to decode Hawking radiation so that the firewall



never sets in as conjectured by Harlow and Hayden Motivated by the information loss paradox the author also investigates the possibility that monster configurations might exist with an arbitrarily large interior bounded by a finite surface area Investigating such an object in AdS shows that in the best understood case such an object much like a firewall cannot exist

## **Geons Black Holes And Quantum Foam A Life In Physics** Book Review: Unveiling the Magic of Language

In a digital era where connections and knowledge reign supreme, the enchanting power of language has become much more apparent than ever. Its ability to stir emotions, provoke thought, and instigate transformation is really remarkable. This extraordinary book, aptly titled "**Geons Black Holes And Quantum Foam A Life In Physics**," compiled by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we will delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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