

Big Bang And George Lemaitre

Rodney D. Holder, Simon Mitton

Cosmic Horizons Steven Soter, Neil deGrasse Tyson, 2001 Leading scientists offer a collection of essays that furnish illuminating explanations of recent discoveries in modern astrophysics--from the Big Bang to black holes--the possibility of life on other worlds, and the emerging technologies that make such research possible, accompanied by incisive profiles of such key figures as Carl Sagan and Georges Lemaître. Original.

Learning the Physics of Einstein with Georges Lemaître Georges Lemaître, 2019-11-26 This book presents the first English translation of the original French treatise "La Physique d'Einstein" written by the young Georges Lemaître in 1922, only six years after the publication of Albert Einstein's theory of General Relativity. It includes an historical introduction and a critical edition of the original treatise in French supplemented by the author's own later additions and corrections. Monsignor Georges Lemaître can be considered the founder of the "Big Bang Theory" and a visionary architect of modern Cosmology. The scientific community is only beginning to grasp the full extent of the legacy of this towering figure of 20th century physics. Against the best advice of the greatest names of his time, the young Lemaître was convinced, solely through the study of Einstein's theory of General Relativity, that space and time must have had a beginning with a tremendous "Big Bang" from a "quantum primeval atom" resulting in an ever-expanding Universe with a positive cosmological constant. But how did the young Lemaître, essentially on his own, come to grips with the physics of Einstein? A year before his ordination as a diocesan priest, he submitted the audacious treatise, published in this book, that was to earn him Fellowships to study at Cambridge, MIT and Harvard, and launched him on a scientific path of ground-breaking discoveries. Almost a century after Lemaître's seminal publications of 1927 and 1931, this highly pedagogical treatise is still of timely interest to young minds and remains of great value from a history of science perspective.

Georges Lemaître 50MINUTES, 2017-04-10 Keen to learn but short on time? Get to grips with the life of Georges Lemaître in next to no time with this concise guide. 50Minutes.com provides a clear and engaging analysis of the work of Georges Lemaître. An unlikely combination of a priest and a physicist who was responsible for the theories of the expansion of the universe and the primeval atom, which today we accept and know collectively as the Big Bang theory, Lemaître was not widely credited or recognised for his theories when he first developed them. It was not until the accidental discovery of cosmic radiation many years later that the scientific community finally came to accept this man and his ideas. In just 50 minutes you will: • Understand Georges Lemaître's theories of the expansion of the universe and of the primeval atom, now known as the Big Bang theory • Find out about his life and determination to reconcile his Catholic faith with his interest in physics • Learn about the accidental discoveries that eventually led to the confirmation of his theories ABOUT 50MINUTES.COM | History & Culture 50MINUTES.COM will enable you to quickly understand the main events, people, conflicts and discoveries from world history that have shaped the world we live in today. Our publications present the key information on a wide variety of topics in a quick and accessible way that is guaranteed to save you time on your journey of discovery.

Georges Lemaître: Life, Science and Legacy Rodney D. Holder, Simon Mitton, 2013-01-13 The year 2011 marked the

80th anniversary of Georges Lemaître's primeval atom model of the universe, forerunner of the modern day Big Bang theory. Prompted by this momentous anniversary the Royal Astronomical Society decided to publish a volume of essays on the life, work and faith of this great cosmologist, who was also a Roman Catholic priest. The papers presented in this book examine in detail the historical, cosmological, philosophical and theological issues surrounding the development of the Big Bang theory from its beginnings in the pioneering work of Lemaître through to the modern day. This book offers the best account in English of Lemaître's life and work. It will be appreciated by professionals and graduate students interested in the history of cosmology.

The Big Bang and Georges Lemaître Andre Berger, 1984

Big Bang Simon Singh, 2005-01-04 We've all heard of the Big Bang, and yet few of us truly know what it is. Renowned for making difficult ideas much less difficult than they might first appear, Simon Singh is our perfect guide to explaining why cosmologists believe that the Big Bang is an accurate description of the origin and evolution of the universe. This highly readable and entertaining book tells the story of the many brilliant, often eccentric scientists who fought against the establishment idea of an eternal and unchanging cosmos. From such early Greek cosmologists as Anaximander to recent satellite measurements taken deep in space, Big Bang is a narrative full of anecdotes and personal histories. With characteristic clarity, Simon Singh tells the centuries-long story of mankind's attempt to understand how the universe came to be, a story which itself begins some 14 billion years ago (give or take a billion years). Simon Singh shows us that it is within the capability of all of us -- in his expert hands -- to understand the Big Bang: the fundamental theory in all of science, and a high point -- perhaps the high point -- of human achievement.

The Big Bang and Georges Lemaître A.L. Berger, 2012-12-06 ix Fully aware of the work accomplished by Mgr. Lemattre, His Majesty King Baudouin enhanced this occasion by placing it under His High Patronage. His Holiness the Pope Jean-Paul II accepted to testify his paternal solicitude for the work of the scientists participating in the symposium. The President of the pontifical Academy of Sciences and the Director of the Vatican Observatory transmitted their fervent wishes for the full success of the symposium. Numerous other eminent people graced the ceremony with their patronage. The academic opening, the addresses of which are published by the Revue des Questions Scientifiques de Bruxelles, was presided over by Mgr. E. Massaux, Rector of the Catholic University of Louvain who spoke about Lemattre, the University professor. Professor Ch. de Duve, Nobel Prize winner in Medicine, called to mind the role of Lemattre as President of the Pontifical Academy of Sciences; the Emeritus Professor O. Godart, founder of the Institute, recalled the life and work of Mgr. Lemattre; Professor A. Deprit, Senior Mathematician at the National Bureau of Standards, spoke about Lemattre's work in celestial mechanics and his keen interest for computers; Professor J. Peebles, Professor of Physics at Princeton University, summarized the fundamental contributions of Lemattre to modern cosmology. The attendance of more than three hundred people was enhanced by the presence of Mgr. A. Pedroni, Papal Nuncio, Mr Ph. Maystadt, Minister of Research Policy, Mr E. Knoops, Secretary of State, Mr Y. de Wasseige, Senator, Professor E.

Georges Lemaître: Life, Science and Legacy Rodney D. Holder, Simon Mitton, 2013-01-12 The year 2011 marked the 80th anniversary of Georges Lemaître's primeval atom model of the universe, forerunner of the modern day Big Bang theory. Prompted by this momentous anniversary the Royal Astronomical Society decided to publish a volume of essays on the life, work and faith of this great cosmologist, who was also a Roman Catholic priest. The papers presented in this book examine in detail the historical, cosmological, philosophical and theological issues surrounding the development of the Big Bang theory from its beginnings in the pioneering work of Lemaître through to the modern day. This book offers the best account in English of Lemaître's life and work. It will be appreciated by professionals and graduate students interested in the history of cosmology.

The Atom of the Universe Dominique Lambert, 2016-07-04 This book takes us from the early childhood to the last days of George Lemaître, the man behind the theory of the primeval atom, now better known as Big Bang theory. But who was George Lemaître? A clergyman, a genius astronomer, an audacious cosmologist, a computer enthusiast ahead of his time, a professor with his head in the clouds, a bon vivant mathematician and gourmand? Dominique Lambert's book peels away these layers, chapter by chapter, from the adventures of a boy from Charleroi (Belgium) who became Monseigneur Lemaître as well as his impact on contemporary cosmology. The reader will follow Lemaître's works through the course of his life, discovering along the way his involvement with the Chinese student community, his complex relationship with the Vatican, his deep devotion to the University of Louvain, his friendship with figures such as Einstein and Eddington, his adventures through the two World Wars, his travels in America, his curious interest in Molière and his deep faith lived through the 'Amis de Jésus'. The resulting picture is of a remarkable figure who was sensitive, creative, meticulous and, paradoxically, both discreet and exuberant while also being a man of exceptional integrity who reconciled his science with his faith. More than a book on one person, this biography of Lemaître offers the key to a better understanding of the profound changes which took place in the fields of science, faith and academic life in the last century. Preface by P.J.E. Peebles

Lemaître, Big Bang, and the Quantum Universe Michał Heller, 1996

The Big Bang and Georges Lemaître A L Berger, 1984-11-30

The Primeval Atom Georges Lemaître, 1950

Flashes of Creation Paul Halpern, 2021-08-17 A respected physics professor and author breaks down the great debate over the Big Bang and the continuing quest to understand the fate of the universe. Today, the Big Bang is so entrenched in our understanding of the cosmos that to doubt it would seem crazy. But as Paul Halpern shows in *Flashes of Creation*, just decades ago its mere mention caused sparks to fly. At the center of the debate were Russian American physicist George Gamow and British astrophysicist Fred Hoyle. Gamow insisted that a fiery explosion explained how the elements of the universe were created. Attacking the idea as half-baked, Hoyle countered that the universe was engaged in a never-ending process of creation. The battle was fierce. In the end, Gamow turned out to be right -- mostly -- and Hoyle, along with his many achievements, is remembered for giving the theory the silliest possible name: The Big Bang. Halpern captures the brilliance of both thinkers and reminds

us that even those proved wrong have much to teach us about boldness, imagination, and the universe itself.

Cosmology and Controversy Helge Kragh, 2021-03-09 For over three millennia, most people could understand the universe only in terms of myth, religion, and philosophy. Between 1920 and 1970, cosmology transformed into a branch of physics. With this remarkably rapid change came a theory that would finally lend empirical support to many long-held beliefs about the origins and development of the entire universe: the theory of the big bang. In this book, Helge Kragh presents the development of scientific cosmology for the first time as a historical event, one that embroiled many famous scientists in a controversy over the very notion of an evolving universe with a beginning in time. In rich detail he examines how the big-bang theory drew inspiration from and eventually triumphed over rival views, mainly the steady-state theory and its concept of a stationary universe of infinite age. In the 1920s, Alexander Friedmann and Georges Lemaître showed that Einstein's general relativity equations possessed solutions for a universe expanding in time. Kragh follows the story from here, showing how the big-bang theory evolved, from Edwin Hubble's observation that most galaxies are receding from us, to the discovery of the cosmic microwave background radiation. Sir Fred Hoyle proposed instead the steady-state theory, a model of dynamic equilibrium involving the continuous creation of matter throughout the universe. Although today it is generally accepted that the universe started some ten billion years ago in a big bang, many readers may not fully realize that this standard view owed much of its formation to the steady-state theory. By exploring the similarities and tensions between the theories, Kragh provides the reader with indispensable background for understanding much of today's commentary about our universe.

Big Bang Big God Rodney Holder, 2013-10-16 How did the universe begin and how has it evolved? Does a scientific explanation mean that we can do without God? Why are the laws of nature so special ('fine-tuned') as to produce a universe with intelligent creatures like us in it in the first place? Can the existence of a multiverse, a vast or infinite collection of universes, explain the specialness of this universe? This book argues that only God provides an explanation for the universe to exist at all, and that design by God provides the best and most rational explanation to adopt for the fine-tuning.

The Big Bang Never Happened Eric Lerner, 2010-12-15 A mesmerizing challenge to orthodox cosmology with powerful implications not only for cosmology itself but also for our notions of time, God, and human nature -- with a new Preface addressing the latest developments in the field. Far-ranging and provocative, *The Big Bang Never Happened* is more than a critique of one of the primary theories of astronomy -- that the universe appeared out of nothingness in a single cataclysmic explosion ten to twenty billion years ago. Drawing on new discoveries in particle physics and thermodynamics as well as on readings in history and philosophy, Eric J. Lerner confronts the values behind the Big Bang theory: the belief that mathematical formulae are superior to empirical observation; that the universe is finite and decaying; and that it could only come into being through some outside force. With inspiring boldness and scientific rigor, he offers a brilliantly orchestrated argument that generates explosive intellectual debate.

Mind of God P. C. W. Davies,1993-03-05 Exploration of whether modern science can provide the key that will unlock all the secrets of existence.

The Wraparound Universe Jean-Pierre Luminet,2008-03-21 What shape is the universe? Is it curved and closed in on itself? Is it expanding? Where is it headed? Could space be wrapped around itself, such that it produces ghost images of faraway galaxies? Such are the questions posed by Jean-Pierre Luminet in *The Wraparound Universe*, which he then addresses in clear and accessible language. An expert in black holes and the big bang, he leads us on a voyage through the surprising byways of space-time, where possible topologies of the universe, explorations of the infinite, and cosmic mirages combine their mysterious traits and unlock the imagination. *The Wraparound Universe* is a general-audience book about the overall topology or shape of the universe. The central question addressed is whether it is possible that the universe is wrapped around in an interesting way, and what impact this would have on astronomical observations and our understanding of cosmology. Along the way many of the general features and much of the history of the modern picture of cosmology are discussed.

Big Bang Theory IntroBooks,2018-02-18 There are so many number of questions like how this universe came into existence and what form is it going to be in future always keeps bothering our scholars and scientists and thus in sake of finding answers to which they every time come up with some new theory that can prove out to be perfectly answerable to their queries. And so like many other theories, big bang is also the one which describes about how this universe, that you are living in now, came into existence. Though, this is not that only theory which described about whole of the universe, but among many of those such as Steady State Theory or Oscillating universe theory, this was the one which was highly accepted and thus became popular.

The Day Without Yesterday John Farrell,2006-10-06 Sometimes our understanding of our universe is given a huge boost by one insightful thinker. Such a boost came in the first half of the twentieth century, when an obscure Belgian priest put his mind to deciphering the nature of the cosmos. Is the universe evolving to some unforeseen end, or is it static, as the Greeks believed? The debate has preoccupied thinkers from Heraclitus to the author of the Upanishads, from the Mayans to Einstein. *The Day Without Yesterday* covers the modern history of an evolving universe, and how Georges Lemaitre convinced a generation of thinkers to embrace the notion of cosmic expansion and the theory that this expansion could be traced backward to the cosmic origins, a starting point for space and time that Lemaitre called the day without yesterday. Lemaitre's skill with mathematics and the equations of relativity enabled him to think much more broadly about cosmology than anyone else at the time, including Einstein. Lemaitre proposed the expanding model of the universe to Einstein, who rejected it. Had Einstein followed Lemaitre's thinking, he could have predicted the expansion of the universe more than a decade before it was actually discovered.

Big Bang And George Lemaitre Book Review: Unveiling the Magic of Language

In an electronic era where connections and knowledge reign supreme, the enchanting power of language has been apparent than ever. Its power to stir emotions, provoke thought, and instigate transformation is actually remarkable. This extraordinary book, aptly titled "**Big Bang And George Lemaitre**," compiled by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound impact on our existence. Throughout this critique, we will delve to the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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