

THE BIG BANG AND OTHER EXPLOSIONS IN NUCLEAR & PARTICLE ASTROPHYSICS



DAVID N. SCHRAMM

Big Bang And Other Explosions In Nuclear And Particle Astrophysics

KJ Lindholm-Leary



Big Bang And Other Explosions In Nuclear And Particle Astrophysics:

The Big Bang And Other Explosions In Nuclear And Particle Astrophysics David N Schramm,1996-06-13 This volume of important papers by one the world's leading astrophysicists provides a sweeping survey of the incisive and exciting applications of nuclear and particle physics to a wide range of problems in astrophysics and cosmology. The prime focus of the book is on Big Bang cosmology and the role of primordial nucleosynthesis in establishing the modern consensus on the Big Bang. This leads into the connection of cosmology to particle physics and the constraints put on various elementary particles by astrophysical arguments. Big Bang Nucleosynthesis has also led to the argument for nonbaryonic dark matter and is thus related to the major problem in physical cosmology today: namely, structure formation. The nuclear particle interface with astrophysics also extends to the other topics of major interest such as the age of the universe, cosmic rays, supernovae, and solar neutrinos, each of which will be discussed in some detail. Each section contains historical papers, current papers, and frequently a popular article on the subject which provides an overview of the topic. This volume is testimony to the success of the integration of nuclear and particle physics with astrophysics and cosmology and to the ingenuity of the work in this area which has earned the author numerous prestigious awards. The book, which is accessible to beginning graduate students, should be of particular interest to researchers and students in astronomy, astrophysics, cosmology, and gravitation and also in high energy and nuclear physics.

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Genesis of the Big Bang Ralph A. Alpher,Robert Herman,2001-02-08 The authors of this volume have been intimately connected with the conception of the Big Bang model since 1947. Following the late George Gamow's ideas in 1942 and more particularly in 1946 that the early

universe was an appropriate site for the synthesis of the elements they became deeply involved in the question of cosmic nucleosynthesis and particularly the synthesis of the light elements In the course of this work they developed a general relativistic model of the expanding universe with physics folded in which led in a progressive logical sequence to our prediction of the existence of a present cosmic background radiation some seventeen years before the observation of such radiation was reported by Penzias and Wilson In addition they carried out with James W Follin Jr a detailed study of the physics of what was then considered to be the very early universe starting a few seconds after the Big Bang which still provides a methodology for studies of light element nucleosynthesis Because of their involvement they bring a personal perspective to the subject They present a picture of what is now believed to be the state of knowledge about the evolution of the expanding universe and delineate the story of the development of the Big Bang model as they have seen and lived it from their own unique vantage point

Origin And Evolution Of The Universe: From Big Bang To Exobiology (Second Edition)
Matthew A Malkan, Benjamin M Zuckerman, 2020-08-12 This book presents a clear highly readable view of science's best understanding of how things in the Universe came to be the way they are Each chapter is written by a leading expert in that sub field Together they cover nearly all major advances made in the past century in fields from cosmology to exobiology Joseph H Taylor Jr Nobel Laureate in Physics 1993 An exhilarating tour of the Universe from true experts For those who thirst to know how we know what we know about our place in the Universe reading this book will be a richly rewarding experience Adam G Riess Nobel Laureate in Physics 2011 These are fascinating essays about the nature of the world around us by people who write well and understand what they are writing about P James E Peebles Nobel Laureate in Physics 2019 The book provides a broad overview of what we currently know about the Origin and Evolution of the Universe The goal is to be scientifically comprehensive but concise We trace the origins from the Big Bang and cosmic expansion to the formation of galaxies heavy elements stars and planets as abodes for life This field has made stunning progress since the first edition of this book At that time there were no known planets outside of our own Solar System compared with the many thousands currently being studied The origin of massive black holes was pure speculation compared with the very recent detection of the first gravitational waves from space produced by the cataclysmic merger of two surprisingly large black holes And the most important energy in the Universe now known as the Dark Energy which is accelerating the expansion had not been discovered We aim to bring lay readers with an interest in science up to speed on all of these key discoveries that are part of the panorama of cosmic evolution which has ultimately led to our existence on Earth Related Links

The Search for Ultralight Bosonic Dark Matter Derek F. Jackson Kimball, Karl van Bibber, 2022-09-28 A host of astrophysical measurements suggest that most of the matter in the Universe is an invisible nonluminous substance that physicists call dark matter Understanding the nature of dark matter is one of the greatest challenges of modern physics and is of paramount importance to our theories of cosmology and particle physics This text explores one of the leading hypotheses to explain dark

matter that it consists of ultralight bosons forming an oscillating field that feebly interacts with light and matter Many new experiments have emerged over the last decade to test this hypothesis involving state of the art microwave cavities precision nuclear magnetic resonance NMR measurements dark matter radios and synchronized global networks of atomic clocks magnetometers and interferometers The editors have gathered leading experts from around the world to present the theories motivating these searches evidence about dark matter from astrophysics and the diverse experimental techniques employed in searches for ultralight bosonic dark matter The text provides a comprehensive and accessible introduction to this blossoming field of research for advanced undergraduates beginning graduate students or anyone new to the field with tutorials and solved problems in every chapter The multifaceted nature of the research combining ideas and methods from atomic molecular and optical physics nuclear physics condensed matter physics electrical engineering particle physics astrophysics and cosmology makes this introductory approach attractive for beginning researchers as well as members of the broader scientific community This is an open access book

The Encyclopedia of Science and Technology James Trefil, 2001-08-24 Edited by acclaimed science writer and physicist James Trefil the Encyclopedia's 1000 entries combine in depth coverage with a vivid graphic format to bring every facet of science technology and medicine into stunning focus From absolute zero to the Mesozoic era to semiconductors to the twin paradox Trefil and his co authors have an uncanny ability to convey how the universe works and to show readers how to apply that knowledge to everyday problems

A Philosophical Approach to MOND David Merritt, 2020-04-30 Dark matter is a fundamental component of the standard cosmological model but in spite of four decades of increasingly sensitive searches no one has yet detected a single dark matter particle in the laboratory An alternative cosmological paradigm exists MOND Modified Newtonian Dynamics Observations explained in the standard model by postulating dark matter are described in MOND by proposing a modification of Newton's laws of motion Both MOND and the standard model have had successes and failures but only MOND has repeatedly predicted observational facts in advance of their discovery In this volume David Merritt outlines why such predictions are considered by many philosophers of science to be the gold standard when it comes to judging a theory's validity In a world where the standard model receives most attention the author applies criteria from the philosophy of science to assess in a systematic way the viability of this alternative cosmological paradigm

Historical Dictionary of the 1960s James S. Olson, 1999-12-30 Few eras in U S history have begun with more optimistic promise and ended in more pessimistic despair than the 1960s When JFK became president in 1960 the U S was the hope of the world Ten years later American power abroad seemed wasted in the jungles of Indochina and critics at home cast doubt on whether the U S was really the land of the free and the home of the brave This book takes an encyclopedic look at the decade at the individuals who shaped the era the civil rights movement the antiwar movement the women's movement and the youth rebellion It covers the political military social cultural religious economic and diplomatic topics that made the 1960s a unique decade in U S history

Conceptions of Cosmos Helge

Kragh,2007 This book is a historical account of how natural philosophers and scientists have endeavoured to understand the universe at large first in a mythical and later in a scientific context Starting with the creation stories of ancient Egypt and Mesopotamia the book covers all the major events in theoretical and observational cosmology from Aristotle s cosmos over the Copernican revolution to the discovery of the accelerating universe in the late 1990s It presents cosmology as a subject including scientific as well as non scientific dimensions and tells the story of how it developed into a true science of the heavens Contrary to most other books in the history of cosmology it offers an integrated account of the development with emphasis on the modern Einsteinian and post Einsteinian period Starting in the pre literary era it carries the story onwards to the early years of the 21st century

The God Problem Howard Bloom,2012-08-30 God s war crimes Aristotle s sneaky tricks Einstein s pajamas information theory s blind spot Stephen Wolfram s new kind of science and six monkeys at six typewriters getting it wrong What do these have to do with the birth of a universe and with your need for meaning Everything as you re about to see How does the cosmos do something it has long been thought only gods could achieve How does an inanimate universe generate stunning new forms and unbelievable new powers without a creator How does the cosmos create That s the central question of this book which finds clues in strange places Why A does not equal A Why one plus one does not equal two How the Greeks used kickballs to reinvent the universe And the reason that Polish born Beno t Mandelbrot the father of fractal geometry rebelled against his uncle You ll take a scientific expedition into the secret heart of a cosmos you ve never seen Not just any cosmos An electrifyingly inventive cosmos An obsessive compulsive cosmos A driven ambitious cosmos A cosmos of colossal shocks A cosmos of screaming stunning surprise A cosmos that breaks five of science s most sacred laws Yes five And you ll be rewarded with author Howard Bloom s provocative new theory of the beginning middle and end of the universe the Bloom toroidal model also known as the big bagel theory which explains two of the biggest mysteries in physics dark energy and why if antimatter and matter are created in equal amounts there is so little antimatter in this universe Called truly awesome by Nobel Prize winner Dudley Herschbach The God Problem will pull you in with the irresistible attraction of a black hole and spit you out again enlightened with the force of a big bang Be prepared to have your mind blown From the Hardcover edition

Relativity, Particle Physics And Cosmology - Proceedings Of The Richard Arnowitt Fest Roland E Allen,1999-02-04 This volume outlines the status of fundamental physics at the threshold of the 21st century Some of the world s leading theorists and experimentalists discuss ongoing research on the following topics M Theory Superstring Theory Supersymmetry and Supergravity Quantum Gravity Dark Matter in the Universe Gravitational Radiation Proton Decay Higgs Physics Cosmology Bose Einstein Condensation

Building Blocks of Matter John S. Rigden,2003 Presents alphabetized cross referenced signed articles on 153 topics and figures in the history of elementary particle physics each including a further reading list

Quantum Generations Helge Kragh,2020-06-16 At the end of the nineteenth century some physicists believed that the basic principles underlying their subject were already known and that

physics in the future would only consist of filling in the details They could hardly have been more wrong The past century has seen the rise of quantum mechanics relativity cosmology particle physics and solid state physics among other fields These subjects have fundamentally changed our understanding of space time and matter They have also transformed daily life inspiring a technological revolution that has included the development of radio television lasers nuclear power and computers In Quantum Generations Helge Kragh one of the world's leading historians of physics presents a sweeping account of these extraordinary achievements of the past one hundred years The first comprehensive one volume history of twentieth century physics the book takes us from the discovery of X rays in the mid 1890s to superstring theory in the 1990s Unlike most previous histories of physics written either from a scientific perspective or from a social and institutional perspective Quantum Generations combines both approaches Kragh writes about pure science with the expertise of a trained physicist while keeping the content accessible to nonspecialists and paying careful attention to practical uses of science ranging from compact disks to bombs As a historian Kragh skillfully outlines the social and economic contexts that have shaped the field in the twentieth century He writes for example about the impact of the two world wars the fate of physics under Hitler Mussolini and Stalin the role of military research the emerging leadership of the United States and the backlash against science that began in the 1960s He also shows how the revolutionary discoveries of scientists ranging from Einstein Planck and Bohr to Stephen Hawking have been built on the great traditions of earlier centuries Combining a mastery of detail with a sure sense of the broad contours of historical change Kragh has written a fitting tribute to the scientists who have played such a decisive role in the making of the modern world

Exotic Nuclei and Nuclear/particle Astrophysics

S. Stoica, 2006 This volume documents an important event in the World Year of Physics 2005 and a continuation of the traditional international summer schools that have taken place in Romania regularly since 1964 On one hand the study of exotic nuclei seeks answers about the structure and interaction of unique finite quantum mechanical many body systems On the other it provides data that have an impact on the understanding of the origin of the elements in the Universe The contributions written by outstanding professors from prestigious research centers over the world provide the reader with both comprehensive reviews and the most recent results in the field Large experimental facilities are discussed together with future research projects The book offers insights into how experiments in terrestrial nuclear physics laboratories may be combined with observations in outer space to enlarge our basic knowledge

Energy Research Abstracts, 1988

Proceedings of 5th International Conference on Theoretical and Applied Physics 2018 Conference Series, July 02 03 2018 Vienna Austria Key Topics Lasers and Optics Computational Physics Many Body Physics Medical Physics and Biophysics Biophotonics Nanophotonics and Nano Devices Graphene Solid State Physics Semiconductor Devices Spintronics Superconductivity Plasma Physics Astrophysics Particle Physics Theory Of Relativity Quantum Field Theory Experimental Physics Theoretical Physics Magnetism

Fundamentals of Nuclear Physics Ritesh

Kohale,2023-06-20 Fundamentals of Nuclear Physics gives elementary understanding of nuclear and particle physics The textbook offers an overview of the subject providing students with a basic understanding about 1 the atomic structure and the nucleus 2 equipment such as particle detectors particle accelerators and nuclear reactors 3 radioactivity and 4 elementary particles Each chapter provides fundamental theoretical and experimental knowledge required for students to strengthen their concepts Other key features of the book include Structured chapters designed for easy reading and stimulating interest for learners Sophisticated figures Thoroughly solved equations Bibliographic references for further reading Updated information about different types of nuclear reactors Information about nuclear astrophysics Fundamentals of Nuclear Physics is suitable for introductory undergraduate courses in nuclear physics as well as more innovative courses geared towards nuclear engineering Neutrino 94 A. Dar,G. Eilam,M. Gronau,2016-06-03 Neutrino 94 *The Cumulative Book Index* ,1997 A world list of books in the English language *American Book Publishing Record* ,1995

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