

COSMOLOGY AND PARTICLE ASTROPHYSICS

Second Edition

Lars Bergström and Ariel Goobar



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Cosmology And Particle Astrophysics

Ensheng Dong



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Cosmology and Particle Astrophysics Lars Bergström, Ariel Goobar, 2006-05-26 Beginning with basic facts about the observable universe this book reviews the complete range of topics that make up a degree course in cosmology and particle astrophysics The book is self contained no specialised knowledge is required on the part of the reader apart from undergraduate math and physics This paperback edition targets students of physics astrophysics and cosmology from advanced undergraduate to early graduate level *Cosmology and Particle Astrophysics* L. Bergstrom, A. Goobar, 1999-03-02 In recent years there has been an increasing realisation that there are important areas of common ground between modern particle physics and high energy astrophysics This book provides a much needed readable yet comprehensive overview of particle physics and emphasises the close links between particle physics and cosmology Beginning with some basic facts about the observable universe the authors consider in successive chapters special and general relativity gravitational lenses cosmological models particles and fields thermodynamics and phase transitions in the early universe The cosmic microwave background structure formation and dark matter the inflationary universe gamma rays cosmic rays neutrinos and gravitational wave detectors are then discussed Recent discoveries such as neutrino mass and oscillations and measurements of the universe using supernovae are treated in a pedagogical and non technical manner A feature of this book is that it is self contained in that no specialised knowledge is required on the part of the reader except basic undergraduate mathematics and physics In addition to the more descriptive sections where the reader is able to get the flavour of the subject without needing to follow every step involved some chapters contain optional more technical parts which may be skipped by less advanced readers By combining the expertise of both a leading experimentalist and foremost theorist this book includes important aspects of both observational cosmology as well as more theoretical concepts Readership Undergraduate and postgraduate students of astronomy astrophysics cosmology particle physics theoretical physics and mathematical physics and those carrying out research in these fields Lars Bergström is Associate Professor in the Department of Physics at Stockholm University He has authored or co authored over 100 technical articles and scientific papers on physics in general and particle physics in particular Ariel Goobar is Postdoctoral Research Fellow in Experimental Particle Astrophysics at FYSIKUM Stockholm University Sweden As active researchers in the subjects of high energy neutrino astrophysics and cosmology both authors are internationally respected authorities in the field of particle astrophysics **Particle Astrophysics, Second Edition** D.H. Perkins, 2009 The close relation between particle interactions and large scale development of the cosmos is a constant theme in the text with emphasis on the interplay between experiment and theory Jacket **The Big Bang and Other Explosions in Nuclear and Particle Astrophysics** David N. Schramm, 1996 This volume of important papers by one of 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

Particle Astrophysics and Cosmology M.M. Shapiro, Rein Silberberg, John P. Wefel, 2012-12-06 Proceedings of the NATO Advanced Study Institute Erice Sicily Italy June 20 30 1992

Cosmology And Particle Astrophysics, Proceedings Of The 2002 International Symposium On Cospa 2002 Kin-wang Ng, Xiao-gang He, 2003-03-12 The 2002 International Symposium on Cosmology and Particle Astrophysics CosPA2002 was held from May 31 to June 2 2002 in Taipei Taiwan The topics covered during the symposium included 1 CMB Physics SZ Surveys Polarizations Large Scale Structures Gravitational Lensing and Data Analysis 2 Dark Energy and Dark Matter Dark Matter Physics Quintessence and the Cosmological Constant 3 Cosmology of Ultra High Energy Cosmic Rays 4 Inflation and New Physics Inflation Noncommutative Geometry Branes and Extra Dimensions The proceedings have been selected for coverage in Index to Scientific Technical Proceedings ISTEP CDROM version ISI Proceedings

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Astroparticle Physics: Theory and Phenomenology Günter Sigl, 2016-12-05 This book aims at giving an overview over theoretical and phenomenological aspects of particle astrophysics and particle cosmology To be of interest for both students and researchers in neighboring fields of physics it keeps a balance between well established foundations that will not significantly change in the future and a more in depth treatment of selected subfields in which significant new developments have been taking place recently These include high

energy particle astrophysics such as cosmic high energy neutrinos the interplay between detection techniques of dark matter in the laboratory and in high energy cosmic radiation axion like particles and relics of the early Universe such as primordial magnetic fields and gravitational waves It also contains exercises and thus will be suitable for both introductory and advanced courses in astroparticle physics

Particle Astrophysics H. V. Klapdor-Kleingrothaus, K Zuber, 1997-09-01 In recent years the fields of both particle physics and astrophysics have become increasingly interdependent High energy particle physics experiments are ever more difficult and expensive to perform in conventional laboratories and it is apparent that there are sources and accelerators in the cosmos which can be used for experiments which would be impossible on the Earth At the same time astrophysicists have found that an understanding of particle physics is essential to describe many observed phenomena such as dark matter solar neutrinos and cosmic rays and also to provide any detailed description of the early universe In this climate of interdisciplinary research more and more researchers are crossing traditional subject boundaries in order to study what has become known as Particle Astrophysics This book conceived as a more specialised follow up to one of the authors earlier works Non accelerator Particle Physics by Klapdor Kleingrothaus and Staudt gives a graduate level account of the physics of particle astrophysics It describes at an introductory level the close connection between the microcosm particles and the macrocosm Universe The approach is wide ranging and succeeds in introducing all of the major theoretical concepts as well as describing the most recent experimental and observational evidence in the field As such it will be invaluable to anyone approaching the subject from either particle physics or astrophysics

Neutrinos in Particle Physics, Astronomy and Cosmology Zhizhong Xing, Shun Zhou, 2011-06-08 Neutrinos in Particle Physics Astronomy and Cosmology provides a comprehensive and up to date introduction to neutrino physics neutrino astronomy and neutrino cosmology The intrinsic properties and fundamental interactions of neutrinos are described as is the phenomenology of lepton flavor mixing seesaw mechanisms and neutrino oscillations The cosmic neutrino background stellar neutrinos supernova neutrinos and ultrahigh energy cosmic neutrinos together with the cosmological matter antimatter asymmetry and other roles of massive neutrinos in cosmology are discussed in detail This book is intended for researchers and graduate students in the fields of particle physics particle astrophysics and cosmology Dr Zhizhong Xing is a professor at the Institute of High Energy Physics Chinese Academy of Sciences China Dr Shun Zhou is currently a postdoctoral fellow at the Max Planck Institute for Physics Germany

Astroparticle Physics Claus Grupen, 2005-12-06 Describes the branch of astronomy in which processes in the universe are investigated with experimental methods employed in particle physics experiments After a historical introduction the basics of elementary particles Explains particle interactions and the relevant detection techniques while modern aspects of astroparticle physics are described in a chapter on cosmology Provides an orientation in the field of astroparticle physics that many beginners might seek and appreciate because the underlying physics fundamentals are presented with little mathematics and the results are illustrated by many diagrams Readers have a

chance to enter this field of astronomy with a book that closes the gap between expert and popular level **Particle Astrophysics**, 2006 **2006 International Symposium on Cosmology and Particle Astrophysics** International Symposium on Cosmology and Particle Astrophysics. 2006, Taipei, 2007 **Towards Ultimate Understanding of the Universe** Pisin Chen, 2013 The past two decades have observed dramatic advancement in our understanding of the universe Such progress in turn has triggered further questions yet to be answered Aspired by such prospects several institutions dedicated to the research of cosmology have been established in the last decade which include the Leung Center for Cosmology and Particle Astrophysics LeCosPA at the National Taiwan University To celebrate its 4th anniversary the First LeCosPA Symposium was held in February 2012 at NTU Internationally renowned physicists and authorities in cosmology particle astrophysics gravity and general relativity and high energy physics convened to survey our present understanding of the universe and to explore the future prospects from both theoretical and experimental perspectives Topics covered include the detection and the nature of dark matter and dark energy the fundamental understanding of space time mass and gravity itself cosmological constant and vacuum energy etc This book should be valuable to researchers and students in the field of cosmology and particle astrophysics 2007 International Symposium on Cosmology and Particle Astrophysics : CosPA 2007 ; 13 - 15 November 2007 ; Taipei, Taiwan International Symposium on Cosmology and Particle Astrophysics, 2008

Particles in the Dark Universe Yann Mambrini, 2024-10-21 This second edition of *Particles in the Dark Universe* has been substantially enhanced with several new chapters that delve into crucial aspects of particle physics in the Universe These additions encompass the role of primordial black holes in the early universe tracing their formation to decay unification theories a comprehensive historical overview of cosmological models an extensive examination of the physics of the graviton and an educational exploration of gravitational phenomena such as Unruh type or Hawking radiation Additionally this edition incorporates 30 new exercises and provides a comprehensive presentation of inflationary models along with a pedagogical insight into the mechanism of baryogenesis Structured in a logical sequence this book offers a thorough and instructional exploration of particle physics within the early universe It initiates by elucidating the thermal history of the universe delving into pivotal concepts like Big Bang nucleosynthesis the cosmic microwave background CMB and inflation Subsequently it meticulously addresses both direct and indirect detection methods of dark matter followed by an in depth analysis of neutrino physics The book further scrutinizes potential candidates for dark matter and their interactions Designed for theoretical physicists engaged in particle physics within the universe dark matter detection astrophysical constraints and those interested in models of inflation or reheating this book also caters to astrophysicists involved in quantum field theory computations It encompasses all essential elements required for computing various physical processes providing mathematical tables necessary thermodynamic functions for the early universe and Feynman rules Consequently this book serves as an intersecting point between astrophysics particle physics and cosmology **Cosmology and Particle Physics**

V. de Sabbata, Ho Tso-Hsiu, 2012-12-06 In recent years there has been a steadily increasing cross fertilization between cosmology and particle physics on both the theoretical and experimental levels Particle physics has provided new experimental data from the big accelerators in operation and data from space satellites are accumulating rapidly Cosmology is still one of the best laboratories for testing particle theory The present work discusses such matters in the context of inflation strings dark matter neutrinos and gravitational wave physics in the very early universe field theory at the Planck scale and high energy physics A particular emphasis has been placed on a new topology for spatial infinity on the relation between temperature and gravitational potential a canonical formulation of general relativity the neutrino mass spin in the early universe the measurement of gravity in the 10 100 m range galaxy galaxy and cluster cluster correlation black holes string theory and string string duality The work also presents a beautiful review of high energy elementary particle physics treating the meaning status and perspectives of unification and standard model gauge couplings Astroparticle Physics

Russell Duffy, 2017-03-07 This book aims at giving an overview over theoretical and phenomenological aspects of particle astrophysics and particle cosmology To be of interest for both students and researchers in neighboring fields of physics it keeps a balance between well established foundations that will not significantly change in the future and a more in depth treatment of selected subfields in which significant new developments have been taking place recently These include high energy particle astrophysics such as cosmic high energy neutrinos the interplay between detection techniques of dark matter in the laboratory and in high energy cosmic radiation axion like particles and relics of the early Universe such as primordial magnetic fields and gravitational waves It also contains exercises and thus will be suitable for both introductory and advanced courses in astroparticle physics *Nuclear and Particle Astrophysics* Jorge Gustavo Hirsch, Danny Page, 1998-08-13 What is the Universe made of How old is it How does a supernova explode Can we detect black holes And where do cosmic rays originate This volume provides a comprehensive and pedagogical introduction to modern ideas and challenging problems in nuclear and particle astrophysics Based on a graduate school specially written articles by eight leading experts cover a wealth of exciting topics including the search for black holes nucleosynthesis and neutrino transport in supernovae the physics of neutron stars massive neutrinos cosmic ray physics and astrophysics and physical cosmology Together they present the Universe as a laboratory for testing cutting edge physics and bridge the gap between conference proceedings and specialised monographs This volume provides an invaluable resource for graduate students and active researchers in nuclear and particle physics astrophysics and cosmology *Astroparticle Physics and Cosmology* Subhendra Mohanty, 2020-10-10 Cosmology and astroparticle physics have seen an avalanche of discoveries in the past decade IceCube high energy neutrinos LIGO gravitational waves Fermi gamma ray telescope Xenon 1T dark matter detection PLANCK cosmic microwave radiation EHT picture of black hole SDSS galaxy surveys all of which require a multidisciplinary background for analyzing the phenomena The arena for testing particle physics models is in the multimessenger astronomical observations

and at the same time cosmology now requires a particle physics basis for explaining many phenomena This book discusses the theoretical tools of particle physics and general relativity which are essential for understanding and correlating diverse astronomical observations

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