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A large, semi-circular image of the Earth as seen from space, showing the Western Hemisphere with North and South America. The image is set against a dark, starry background. A thin white rectangular border is superimposed over the center of the Earth image.

# Inflation in Particle Physics

Bishal Das, Jinzhao Yang  
School of Mathematical Sciences  
24<sup>th</sup> February 2023

# Particle Physics And Inflation

**Lucien Heurtier**



## Particle Physics And Inflation:

Particle Physics and Inflationary Cosmology Andrei Linde,1990-05-17 A monograph on inflationary cosmology and cosmological phase transitions investigating modern cosmology's relationship to elementary particle physics This work also includes a non technical discussion of inflationary cosmology for those unfamiliar with the theory

**Particle Physics and Inflationary Cosmology** Andrei Linde,1996

*Particle Physics* A. D. Linde,1990

**Inflation and Quantum Cosmology** A.D. Linde,2012-12-02 Inflation and Quantum Cosmology discusses the inflationary universe scenario including the problems of the standard big bang theory and the interplay between elementary particle theory and cosmology Inflationary universe models generate many different final perturbation spectra For example a model of an inflationary universe through a casual mechanism can predict energy density fluctuations leading to the formation of galaxies The inflationary universe scenario makes possible simultaneous solutions to ten problems related to cosmology and elementary particle physics One problem concerns the origin of density perturbations that show a picture of the large scale structure of the universe Some unexplored possibilities are related to isothermal perturbations generated during inflation or to adiabatic perturbations with a non flat spectrum An inflationary universe cosmology also includes stochastic inflation that describes the universe on very large scales from fragmented mini universes to another inflationary cosmos The book also discusses the problem relating to the initial conditions from which an inflationary universe starts This book is suitable for astronomers astrophysicists and professors of cosmology and cosmogenesis

*Inflationary Cosmology* Martin Lemoine,Jérôme Martin,Patrick Peter,2007-10-12 Some 25 years after the birth of inflationary cosmology this volume sets out to provide both an authoritative and pedagogical introduction and review of the current state of the field Readers learn about the arguments supporting the many different scenarios of cosmic inflation Articles are written by eminent scientists many of whom have made pioneering contributions to the field of inflationary cosmology

**Introduction to Cosmic Inflation and Dark Energy** Konstantinos Dimopoulos,2020-11-24 Cosmic inflation and dark energy hold the key to the origin and the eventual fate of the Universe Despite the increasing prominence of these subjects in research and teaching over the past decade or more no introductory textbook dedicated to these topics has been previously published Dr Konstantinos Dimopoulos is a highly regarded expert in the field and an experienced communicator of the subject to students In this book he provides advanced undergraduate and early graduate students with an accessible introduction and equips them with the tools they need to understand the cosmology of cosmic inflation and dark energy Features Provides a concise pedagogical crash course in big bang cosmology focusing on the dynamics and the history of the Universe with an emphasis on the role of dark energy Chapters contain questions and problems for readers to test their understanding The first book to make cosmic inflation and dark energy accessible to students

**Cosmological Inflation and the Standard Model of Particle Physics** Alexandru Tudorica,2011-12-01 Inflation is the idea that in the early history of the Universe a local Lorentz invariant energy density an

effective cosmological term dominated the equation of state causing exponential expansion. It solves a great deal of problems in cosmology while introducing others. One of these additional problems is the origin of the inflaton field that produced the inflation. Extrapolating the Standard Model of Cosmology and the gauge theory of electroweak and strong interactions to very early times and therefore to extremely high energies we can make verifiable predictions about certain observables. One option is to look for inflationary dynamics based on degrees of freedom already present in the Standard Model of Elementary Physics as it has been shown that such minimal classical Lagrangians can support inflation driven by an interesting interplay between the quartic term and the non-minimal coupling term, the so-called running inflation. Solving the renormalization group equations up to the Planck energy scale, cosmological parameters are found to be dependent on the top quark and Higgs boson mass.

*Cosmological Inflation and Large-Scale Structure* Andrew R. Liddle, David H. Lyth, 2000-04-13

Enormous progress has been made in inflationary cosmology in the past few years and this book is the first to provide a modern and unified overview of the subject. Coverage examines every aspect of inflationary cosmology and carefully compares predictions with the latest observations including those of the cosmic microwave background, the clustering and velocities of galaxies and the epoch of structure formation. Problems are included throughout to help the student develop a thorough understanding. An ideal introduction to what promises to be one of the most fruitful topics of research in science in the next decade, this volume will be of great interest to graduate students and researchers in astrophysics, cosmology, particle physics, theoretical physics and applied mathematics.

**Particle Physics Models of Inflation and the Cosmological Density Perturbation** David H. Lyth, 1999

*Observational Tests of Cosmological Inflation* T. Shanks, A.J. Banday, Richard S. Ellis, Carlos S. Frenk, A.W. Wolfendale, 2012-12-06

This book represents the proceedings from the NATO sponsored Advanced Research Workshop entitled *Observational Tests of Inflation* held at the University of Durham, England, on the 10th-14th December 1990. In recent years the cosmological inflation model has drawn together the worlds of particle physics, theoretical cosmology and observational astronomy. The aim of the workshop was to bring together experts in all of these fields to discuss the current status of the inflation theory and its observational predictions. The simplest inflation model makes clear predictions which are testable by astronomical observation. Foremost is the prediction that the cosmological density parameter  $\Omega$  should have a value negligibly different from the critical Einstein-de Sitter value of 1. The other main prediction is that the spectrum of primordial density fluctuations should be Gaussian and take the Harrison-Zeldovich form. The prediction that  $n=1$  in particular leads to several important consequences for cosmology. Firstly, there is the apparent contradiction with the limits on baryon density from Big Bang nucleosynthesis which has led to the common conjecture that weakly interacting particles rather than baryons may form the dominant mass constituent of the Universe. Secondly, with  $n=1$  the age of the Universe is uncomfortably short if  $\Omega$  is the Hubble constant and the ages of the oldest star clusters lie within their currently believed limits.

**Inflationary Cosmology** Martin Lemoine, 2008

Some 25 years after the birth of

inflationary cosmology this volume sets out to provide a both authoritative and pedagogical introduction and review of the state of the field Cosmic inflation corresponds to an episode of accelerated expansion of the very early universe and solves nicely a collection of puzzles that had plagued standard cosmology so far Different scenarios exist though and the reader will learn about the ins and outs as the subject and related issues are surveyed With lectures written by eminent scientists in the field many of them having made pioneering contributions in the early hours of the field Inflationary Cosmology addresses both senior and younger high energy physicists cosmologists and observational astrophysicists seeking both a readable account and reference in the field

**Particle physics models of inflation in supergravity and grand unification**

Philipp Kostka,2010 *Results and Perspectives in Particle Physics* M. Greco,1987 Particle Physics and Cosmology

Beyond the Standard Model : Inflation, Dark Matter and Flavour Lucien Heurtier,2015 **Particles in the Dark Universe**

Yann Mambrini,2021-09-02 This book provides a comprehensive and instructive coverage of particle physics in the early universe in a logical way It starts from the thermal history of the universe by investigating some of the main arguments such as Big Bang nucleosynthesis the cosmic microwave background CMB and the inflation before treating in details the direct and indirect detection of dark matter and then some aspects of the physics of neutrino Following it describes possible candidates for dark matter and its interactions The book is targeted at theoretical physicists who deal with particle physics in the universe dark matter detection and astrophysical constraints and at particle physicists who are interested in models of inflation or reheating This book offers also material for astrophysicists who work with quantum field theory computations All that is useful to compute any physical process is included mathematical tables all the needed functions for the thermodynamics of early universe and Feynman rules In light of this this book acts as a crossroad between astrophysics particle physics and cosmology Introduction to Particle Cosmology Cosimo Bambi,Alexandre D. Dolgov,2015-08-14 This book introduces the basic concepts of particle cosmology and covers all the main aspects of the Big Bang Model expansion of the Universe Big Bang Nucleosynthesis Cosmic Microwave Background large scale structures and the search for new physics inflation baryogenesis dark matter dark energy It also includes the majority of recent discoveries such as the precise determination of cosmological parameters using experiments like WMAP and Planck the discovery of the Higgs boson at LHC the non discovery to date of supersymmetric particles and the search for the imprint of gravitational waves on the CMB polarization by Planck and BICEP This textbook is based on the authors courses on Cosmology and aims at introducing Particle Cosmology to senior undergraduate and graduate students It has been especially written to be accessible even for those students who do not have a strong background in General Relativity and quantum field theory The content of this book is organized in an easy to use style and students will find it a helpful research guide Particle Physics Models of Inflation and Curvaton Scenarios Anupam Mazumdar,Jonathan Rocher,2010 *The Bloomsbury Handbook of the Philosophy of the Historical Sciences and Big History* Aviezer Tucker,David Cernín,2025-08-21 This handbook examines the philosophy of the

historical sciences and their synthesis in concepts like Big or Deep History Written by interdisciplinary philosophers historians and scientists it acts as a valuable guide for anybody interested in scientific knowledge of the deep past Big History and the philosophy of science The Bloomsbury Handbook of the Philosophy of the Historical Sciences and Big History is the first philosophical reference work to recognize that History is not what it used to be the historical sciences Deep History Big History and even the history of the Anthropocene have now expanded the scope of historiography beyond that of literate civilizations to cover all scientific inferences about the past from the Big Bang through the history of the planet and the history of life to the history of humanity Different views about the scope of History have ontological epistemic methodological explanatory ethical and educational reasons and implications The historical sciences and the knowledge they have generated are founded on theories of knowledge of the past epistemology of history The contributions in this book consider whether there are common epistemic properties to all the historical sciences that distinguish them from non historical or theoretical sciences The first part of the handbook examines the recent expansion of the scope of the historical sciences in Big History natural history global history and environmental history and older broader concepts of history like universal history and philosophy of history The second part of the handbook addresses the ontology and epistemology of the past including the basic concepts of the historical sciences such as origins the end of history determination and underdetermination contingency and necessity historical predictions and counterfactuals and historical pseudoscience The third part examines the philosophies of the special historical sciences historical linguistics textual criticism geology evolutionary biology systematics archaeology cosmology history of the environment and most significantly their integrations and combinations for example how genetics archaeology and historical linguistics have generated a whole new knowledge of deep human history This collection offers an overview of what the philosophy of the historical sciences is and is becoming for students and experts alike

Cosmological Inflation, Dark Matter and Dark Energy Kazuharu Bamba, 2019-11-14 Various cosmological observations support not only cosmological inflation in the early universe which is also known as exponential cosmic expansion but also that the expansion of the late time universe is accelerating To explain this phenomenon the existence of dark energy is proposed In addition according to the rotation curve of galaxies the existence of dark matter which does not shine is also suggested If primordial gravitational waves are detected in the future the mechanism for realizing inflation can be revealed Moreover there exist two main candidates for dark matter The first is a new particle the existence of which is predicted in particle physics The second is an astrophysical object which is not found by electromagnetic waves Furthermore there are two representative approaches to account for the accelerated expansion of the current universe One is to assume the unknown dark energy in general relativity The other is to extend the gravity theory to large scales Investigation of the origins of inflation dark matter and dark energy is one of the most fundamental problems in modern physics and cosmology The purpose of this book is to explore the physics and cosmology of inflation dark matter and

dark energy      *Cosmological Inflation and Supersymmetric Particle Physics* G. D. Coughlan, 1985

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