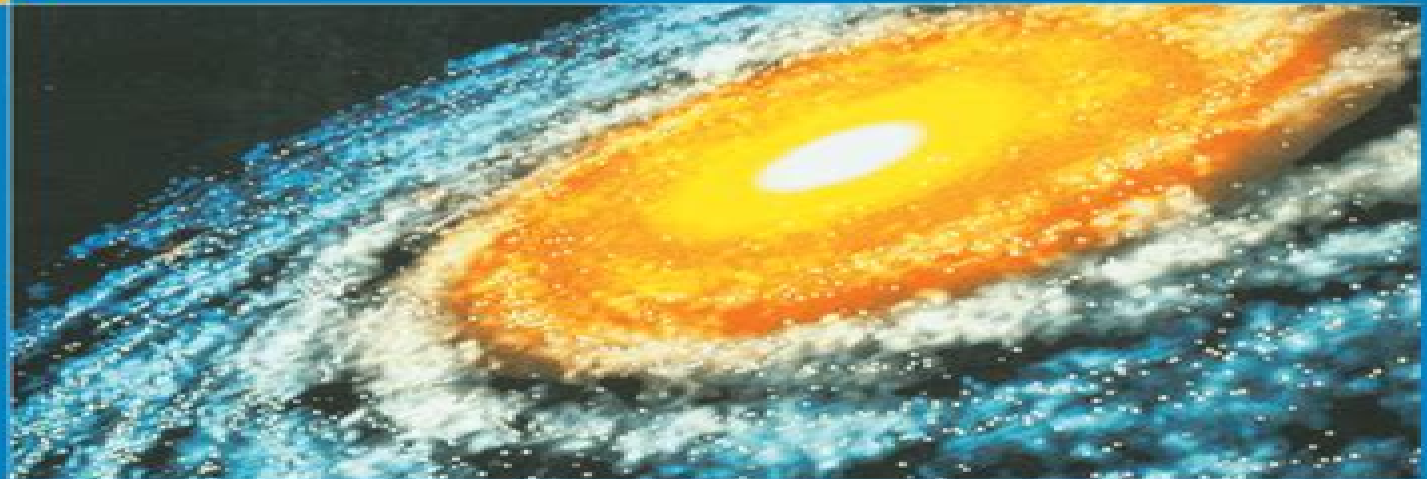


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String Theory: From Gauge Interactions to Cosmology France) (2004 NATO Advanced Study Institute on String Theory: From Gauge Interactions to Cosmology Cargèse, **Supersymmetry and String Theory** Michael Dine,2016-01-07 The past decade has witnessed dramatic developments in the fields of experimental and theoretical particle physics and cosmology This fully updated second edition is a comprehensive introduction to these recent developments and brings this self contained textbook right up to date Brand new material for this edition includes the groundbreaking Higgs discovery results of the WMAP and Planck experiments Extensive discussion of theories of dynamical electroweak symmetry breaking and a new chapter on the landscape as well as a completely rewritten coda on future directions gives readers a modern perspective on this developing field A focus on three principle areas supersymmetry string theory and astrophysics and cosmology provide the structure for this book which will be of great interest to graduates and researchers in the fields of

particle theory string theory astrophysics and cosmology The book contains several problems and password protected solutions will be available to lecturers at www.cambridge.org/9781107048386 String Theory: From Gauge Interactions to Cosmology Laurent Baulieu, Jan de Boer, Boris Pioline, Eliezer Rabinovici, 2006-06-26 String Theory is our current best candidate for the unification of all fundamental forces including gravity in a consistent quantum framework In this collection of lectures delivered at the Carg se Summer School String Theory from Gauge Interactions to Cosmology world leading experts provide an up to date survey of the latest developments in this topic including the gauge gravity correspondence superstring cosmology and cosmic strings topological string theory and matrix models physics beyond the standard model and the landscape of vacua of string theory conformal field theory and critical phenomena in statistical mechanics Many more topics are also discussed in shorter contributions by School participants Written with an emphasis on pedagogy this volume will be a invaluable resource to students and experts alike *Progress in String, Field and Particle Theory L.* Baulieu, Eliezer Rabinovici, Jeff Harvey, Boris Pioline, Paul Windey, 2012-12-06 The NATO Advanced Study Institute and EC Summer School Progress in String Field and Particle Theory was held in Cargse from June 25th till July 11th 2002 The main focus of the school was the recent progress in the very ac tive areas of superstring theory quantum gravity and the theory of elementary particles It covered topical problems in domains such as duality between gravity and gaugeinteractions string field theory tachyon condensation non commutative field theory string cosmology and string phenomenology The School featured daily introductory lectures and topical seminars An informal Gong Show session allowed young post doctoral researchers and senior graduate students to make a concise presentation oftheir current work The School gave an excellent opportunity to the youngest researchers to establish a close relationship with their seniors and with the lecturers These proceedings will further serve in fixing the acquired knowledge and hopefully become a useful reference for anyone working in this fascinating do main of physics Some of the contributions provide an elementary introduction to their subject while other ones are more geared to the specialist We are deeply indebted to the NATO Division for Scientific Affairs for funding and for their constant attention for our meetings and to the European Commission for a High Level Scientific Conference grant HPCFCT 2001 00298 String Cosmology Johanna Erdmenger, 2009-07-14 This relatively new field applies equations from string theory to solve the questions of early cosmology since the standard picture of our universe emerging from a big bang leaves many fundamental issues unanswered String theory on the other hand postulates that fundamental ingredients of nature are not zero dimensional point particles but tiny one dimensional filaments This theory harmoniously unites quantum mechanics and general relativity the previously known laws of the small and the large which are otherwise incompatible The field of string cosmology has matured considerably over the past few years attracting many new adherents Due to the multidisciplinary nature of the topic it is difficult for practitioners to be conversant with all the many different aspects This book thus fills a huge gap by bringing together all the different strains of research into one single volume The

resulting collection of selected articles presents the latest ongoing results from renowned experts currently working in the field From the contents Introduction to Cosmology and String Theory String Inflation Brane Inflation and Inflation from Moduli Cosmic Superstrings The CMB as a Possible Probe of String Theory String Gas Cosmology Gauge gravity Duality and String Cosmology Heterotic M theory and C A welcome addition to the literature for graduate students students in astronomy astronomers mathematicians and theoretical physicists *Supersymmetric Gauge Field Theory and String Theory* D. Bailin, Alexander Love, 1994-01-01 Designed as a sequel to the authors Introduction to Gauge Field Theory Supersymmetric Gauge Field Theory and String Theory introduces first year graduate students to supersymmetric theories including supergravity and superstring theories Starting with the necessary background in quantum field theory the book covers the three key topics of high energy physics The emphasis is on practical calculations rather than abstract generalities or phenomenological results Where possible the authors show how to calculate connecting the theoretical with the phenomenological While the field continues to advance and grow this book addresses the basic theory at the core and will likely remain relevant even if more advanced ideas change Cosmology and String Theory Horațiu Năstase, 2019-04-04 Cosmology describes the evolution of the Universe and is based on a description of its beginning from quantum fluctuations String theory is the only known consistent theory of quantum gravity that can deal with the highest energy scales near the Planck energy relevant for cosmology s beginning As a result only string theory can give a fully consistent picture of cosmological origins This book describes the best current avenues for obtaining cosmology from string theory It is aimed at graduate students and also researchers with some familiarity with cosmology and string theory however no detailed knowledge is required *Advances in String Theory* Eric R. Sharpe, Arthur Greenspoon, 2008 Over the past decade string theory has had an increasing impact on many areas of physics high energy and hadronic physics gravitation and cosmology mathematical physics and even condensed matter physics The impact has been through many major conceptual and methodological developments in quantum field theory in the past fifteen years In addition string theory has exerted a dramatic influence on developments in contemporary mathematics including Gromov Witten theory mirror symmetry in complex and symplectic geometry and important ramifications in enumerative geometry This volume is derived from a conference of younger leading practitioners around the common theme What is string theory The talks covered major current topics both mathematical and physical related to string theory Graduate students and research mathematicians interested in string theory in mathematics and physics will be interested in this workshop BOOK JACKET **Quantum Gravity and Cosmology Based on Conformal Field Theory** Ken-ji Hamada, 2019-01-18 What is the world beyond the Planck scale that provides the minimum unit of the universe The goal of quantum gravity is to reveal physical laws in such a world There quantum fluctuations of gravity become large and what is called a background free world where the concept of time and distance is lost shall be realized The renormalizable quantum gravity introduced in this book offers a theory in which such a

world is described by a certain conformal field theory and a deviation from there is handled as a perturbation This is the state of the art of modern physics that will help in understanding the history of the universe from its birth to the present

String Theory and the Scientific Method Richard Dawid, 2013-05-02 Explains why string theorists develop a strong belief in their theory despite the lack of empirical confirmation

String Theory And Cosmology - Proceedings Of The Nobel Symposium 127 Ulf Danielsson, A Goobar, B E W Nilsson, 2005-08-02 The Nobel Symposium in 2003 on String Theory and Cosmology was a gathering of many of the most active and distinguished scientists in the world including Stephen Hawking 2004 Nobel Prize winner David Gross and Andrei Linde The experts comprising both theoreticians and experimentalists were given the opportunity to discuss the present status of their respective subjects Throughout the symposium special attention was given to the connections between the fields the questions posed ranged from Can cosmology be used to test string theory to Can string theory answer deep questions about cosmology The symposium marked a new era in the understanding of the science of the very small and the very large This book is a unique document that reflects upon the state of fundamental physics at a historically important moment in time

Unity from Duality: Gravity, Gauge Theory and Strings C. Bachas, 2002 The contributions to this volume of the famous summer school in Les Houches cover the recent developments in supersymmetric string theory the gauge theory string theory correspondence and string duality The book is a comprehensive introduction to the recent developments in string M theory and quantum gravity

Gravity, Gauge Theories and Quantum Cosmology J.V. Narlikar, T. Padmanabhan, 1986-07-31 For several decades since its inception Einstein's general theory of relativity stood somewhat aloof from the rest of physics Paradoxically the attributes which normally boost a physical theory namely its perfection as a theoretical framework and the extraordinary intellectual achievement underlying it prevented the general theory from being assimilated in the mainstream of physics It was as if theoreticians hesitated to tamper with something that is manifestly so beautiful Happily two developments in the 1970s have narrowed the gap In 1974 Stephen Hawking arrived at the remarkable result that black holes radiate after all And in the second half of the decade particle physicists discovered that the only scenario for applying their grand unified theories was offered by the very early phase in the history of the Big Bang universe In both cases it was necessary to discuss the ideas of quantum field theory in the background of curved spacetime that is basic to general relativity This is however only half the total story If gravity is to be brought into the general fold of theoretical physics we have to know how to quantize it To date this has proved a formidable task although most physicists would agree that as in the case of grand unified theories quantum gravity will have applications to cosmology in the very early stages of the Big Bang universe In fact the present picture of the Big Bang universe necessarily forces us to think of quantum cosmology

A Unified Grand Tour of Theoretical Physics, Third Edition Ian D. Lawrie, 2012-11-27 A Unified Grand Tour of Theoretical Physics invites its readers to a guided exploration of the theoretical ideas that shape our contemporary understanding of the physical world at the fundamental

level Its central themes comprising space time geometry and the general relativistic account of gravity quantum field theory and the gauge theories of fundamental forces and statistical mechanics and the theory of phase transitions are developed in explicit mathematical detail with an emphasis on conceptual understanding Straightforward treatments of the standard models of particle physics and cosmology are supplemented with introductory accounts of more speculative theories including supersymmetry and string theory This third edition of the Tour includes a new chapter on quantum gravity focusing on the approach known as Loop Quantum Gravity while new sections provide extended discussions of topics that have become prominent in recent years such as the Higgs boson massive neutrinos cosmological perturbations dark energy and matter and the thermodynamics of black holes Designed for those in search of a solid grasp of the inner workings of these theories but who prefer to avoid a full scale assault on the research literature the Tour assumes as its point of departure a familiarity with basic undergraduate level physics and emphasizes the interconnections between aspects of physics that are more often treated in isolation The companion website at www.unifiedgrandtours.org provides further resources including a comprehensive manual of solutions to the end of chapter exercises

String Theory and the Real World: From particle physics to astrophysics, 2008-07-29 This book is a collection of lectures given in July 2007 at the Les Houches Summer School on String Theory and the Real World From particle physics to astrophysics Provides a pedagogical introduction to topics in String Theory and Cosmology Addresses each topic from the basis to the most recent developments Covers the lectures by internationally renowned and leading experts

Basic Concepts of String Theory Ralph Blumenhagen, Dieter Lüst, Stefan Theisen, 2012-10-04 The purpose of this book is to thoroughly prepare the reader for research in string theory at an intermediate level As such it is not a compendium of results but intended as textbook in the sense that most of the material is organized in a pedagogical and self contained fashion Beyond the basics a number of more advanced topics are introduced such as conformal field theory superstrings and string dualities the text does not cover applications to black hole physics and cosmology nor strings theory at finite temperatures End of chapter references have been added to guide the reader wishing to pursue further studies or to start research in well defined topics covered by this book

Finite-Temperature Field Theory Joseph I. Kapusta, Charles Gale, 2023-07-27 Develops the basic formalism and theoretical techniques for relativistic quantum field theory at high temperature and density now Open Access Nonequilibrium Quantum Field Theory Esteban A. Calzetta, Bei-Lok B. Hu, 2023-02-09 This 2008 book reissued as OA captures the essence of nonequilibrium quantum field theory graduate students and researchers

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