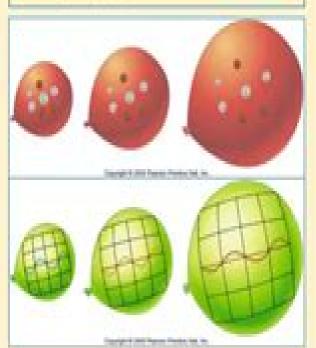
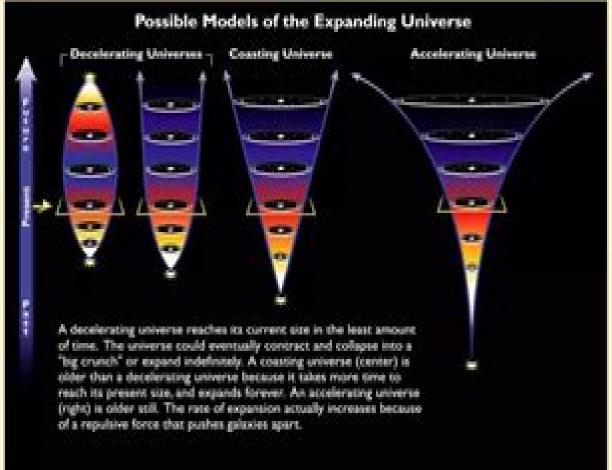
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  - 3. Accelerating expanding Universe



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# **Mathematical Cosmology**

Spiros Cotsakis, Eleftherios Papantonopoulos

#### **Mathematical Cosmology:**

An Introduction to Mathematical Cosmology Jamal N. Islam, 2002 An introductory textbook on mathematical cosmology for beginning graduate students Mathematical Cosmology and Extragalactic Astronomy, 1976-02-19 Mathematical Cosmology and Extragalactic Astronomy Mathematical Cosmology Peter Theodore Landsberg, D. A. Evans, 1977 Cosmology is a subject of much scientific and philosophical interest but accounts are usually either non mathematical or fully relativistic This book seeks to give readers a quantitative understanding of some important aspects of general relativistic cosmology starting only with mathematics and Newtonian ideas in physics The book is concerned mainly with various models that have been proposed to explain the large scale structure of the universe the Friedmann models steady state models and model universes involving pressure Topics also covered include special relativity red shift magnitude relations radio source counts Olbers paradox horizons and cosmological coincidences **Current Topics In Mathematical** Cosmology - Proceedings Of The International Seminar M Rainer, Hans-jurgen Schmidt, 1998-12-31 In this volume current topics from classical large scale models to quantum gravity effects in the mathematical formulation of physically motivated cosmological theories are discussed There are contributions dealing with topics such as the singularity theorem the cosmic no hair theorem and other results related to the big bang and the inflationary cosmological models Also discussed are non standard themes like field equations of order higher than 2 space times of dimension different from 4 relating also to current generalizations of string theory and some issues in quantum cosmology **Mathematical Cosmology** Peter Theodore Landsberg, David A. Evans, 1977 Modern Theoretical and Observational Cosmology Manolis Plionis, Spiros Cotsakis, 2012-12-06 Proceedings of the second Hellenic Cosmology Meeting held in the National Observatory of Athens Penteli 19 20 April 2001 Mathematical and Quantum Aspects of Relativity and Cosmology Spiros Cotsakis, Gary W. Gibbons, 2000-01-24 This book is written in a pedagogical style intelligible for graduate students It reviews recent progress in black hole and wormhole theory and in mathematical cosmology within the framework of Einstein's field equations and beyond including quantum effects This collection of essays written by leading scientists of long standing reputation should become an indispensable source for future research Cosmology Georgios Contopoulos, Dimitrios Kotsakis, 2012-12-06 From the reviews It survives the pitfalls of this fashion conscious era by pursuing a rigorously independent minded attitude to contemporary ideas The level is introductory undergraduate with rather little mathematics but a strong physical basis The second part on general relativity and cosmology provides a good account of modern theoretical ideas from rotating black holes to Grand Unified Theories and inflation The third part is an excellent and profound discussion of the fundamental problems of cosmology For anyone with a philosophical turn of mind this section alone makes the book essential reading Relativistic Cosmology George F. R. Ellis, Roy Maartens, Malcolm A. H. MacCallum, 2012-03-22 Surveying key Nature developments and open issues in cosmology for graduate students and researchers this book focuses on the general concepts

and relations that underpin the standard model of the Universe It also examines anisotropic and inhomogeneous models and deeper issues such as quantum cosmology and the multiverse proposal **Cosmological Crossroads** Spiros Cotsakis, Eleftherios Papantonopoulos, 2002-11-07 This book has grown out of lectures held at a summer school on cosmology in response to an ever increasing need for an advanced textbook that addresses the needs of both postgraduate students and nonspecialist researchers from various disciplines ranging from mathematical physics to observational astrophysics Bridging the gap between standard textbook material in cosmology and the forefront of research this book also constitutes a modern source of reference for the experienced researcher in classical and quantum cosmology **Primordial Cosmology** Giovanni Montani, 2011 Primordial Cosmology deals with one of the most puzzling and fascinating topics debated in modern physics the nature of the Big Bang singularity The authors provide a self consistent and complete treatment of the very early Universe dynamics passing through a concise discussion of the Standard Cosmological Model a precise characterization of the role played by the theory of inflation up to a detailed analysis of the anisotropic and inhomogeneous cosmological models The most peculiar feature of this book is its uniqueness in treating advanced topics of quantum cosmology with a well traced link to more canonical and pedagogical notions of fundamental cosmology This book traces clearly the backward temporal evolution of the Universe starting with the Robertsonndash Walker geometry and ending with the recent results of loop quantum cosmology in view of the Big Bounce The reader is accompanied in this journey by an initial technical presentation which thanks to the fundamental tools given earlier in the book never seems heavy or obscure *Progress in Mathematical* Relativity, Gravitation and Cosmology Alfonso García-Parrado, Filipe C. Mena, Filipe Moura, Estelita Vaz, 2013-11-26 This book contains contributions from the Spanish Relativity Meeting ERE 2012 held in Guimar es Portugal September 2012 It features more than 70 papers on a range of topics in general relativity and gravitation from mathematical cosmology numerical relativity and black holes to string theory and quantum gravity Under the title Progress in Mathematical Relativity Gravitation and Cosmology ERE 2012 was attended by an exceptional international list of over a hundred participants from the five continents and over forty countries ERE is organized every year by one of the Spanish or Portuguese groups working in this area and is supported by the Spanish Society of Gravitation and Relativity SEGRE This book will be of interest to researchers in mathematics and physics Encyclopedia of Cosmology (Routledge Revivals) Norriss S. Hetherington, 2014-04-08 The Encyclopedia of Cosmology first published in 1993 recounts the history philosophical assumptions methodological ambiguities and human struggles that have influenced the various responses to the basic questions of cosmology through the ages as well as referencing important scientific theories Just as the recognition of social conventions in other cultures can lead to a more productive perspective on our own behaviour so too a study of the cosmologies of other times and places can enable us recognise elements of our own cosmology that might otherwise pass as inevitable developments Apart from modern natural science therefore this volume incorporates brief treatments of Native

American Cave Dweller Chinese Egyptian Islamic Megalithic Mesopotamian Greek Medieval and Copernican cosmology leading to an appreciation of cosmology as an intellectual creation not merely a collection of facts It is a valuable reference tool for any student or academic with an interest in the history of science and cosmology specifically An Introduction to Mathematical Cosmology J. N. Islam, 2001-11-22 This book provides a concise introduction to the mathematical aspects of the origin structure and evolution of the universe The book begins with a brief overview of observational and theoretical cosmology along with a short introduction of general relativity It then goes on to discuss Friedmann models the Hubble constant and deceleration parameter singularities the early universe inflation quantum cosmology and the distant future of the universe This new edition contains a rigorous derivation of the Robertson Walker metric It also discusses the limits to the parameter space through various theoretical and observational constraints and presents a new inflationary solution for a sixth degree potential This book is suitable as a textbook for advanced undergraduates and beginning graduate students It will also be of interest to cosmologists astrophysicists applied mathematicians and mathematical physicists Structure, and Development in Al-F?r?b?'s Cosmology Damien Janos, 2012-03-02 This study analyzes key concepts in al Frbs cosmology and provides a new interpretation of his philosophical development through an analysis of the Greco Arabic sources and a contextualization of his life and thought in the cultural and intellectual milieu of his time **Mathematical Universe** Max Tegmark, 2014-01-07 Max Tegmark leads us on an astonishing journey through past present and future and through the physics astronomy and mathematics that are the foundation of his work most particularly his hypothesis that our physical reality is a mathematical structure and his theory of the ultimate multiverse In a dazzling combination of both popular and groundbreaking science he not only helps us grasp his often mind boggling theories but he also shares with us some of the often surprising triumphs and disappointments that have shaped his life as a scientist Fascinating from first to last this is a book that has already prompted the attention and admiration of some of the most prominent scientists and mathematicians Heaven and Earth in Ancient Greek Cosmology Dirk L. Couprie, 2011-03-23 In Miletus about 550 B C together with our world picture cosmology was born This book tells the story In Part One the reader is introduced in the archaic world picture of a flat earth with the cupola of the celestial vault onto which the celestial bodies are attached One of the subjects treated in that context is the riddle of the tilted celestial axis. This part also contains an extensive chapter on archaic astronomical instruments Part Two shows how Anaximander 610 547 B C blew up this archaic world picture and replaced it by a new one that is essentially still ours He taught that the celestial bodies orbit at different distances and that the earth floats unsupported in space This makes him the founding father of cosmology Part Three discusses topics that completed the new picture described by Anaximander Special attention is paid to the confrontation between Anaxagoras and Aristotle on the question whether the earth is flat or spherical and on the battle between Aristotle and Heraclides Ponticus on the question whether the universe is finite or infinite 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 Lema tre 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 **Differential Geometric Methods in Mathematical** Physics H.-D. Doebner, S. I. Andersson, H. R. Petry, 2006-11-14 Comets, Cosmology and the Big Bang Allan Chapman, 2018-11-23 This book will take the story of astronomy on from where Allan Chapman left it in Stargazers and bring it almost up to date with the developments and discoveries of the last three centuries He covers the big names Halley Hooke Herschel Hubble and Hoyle and includes the women who pushed astronomy forward from Caroline Herschel to the Victorian women astronomers He includes the big discoveries and the huge ideas from the Milky War to the Big Bang the mighty atom and the question of life on other planets And he brings in the contributions made in the US culminating in their race with the USSR to get a man on the moon before turning to the explosion of interest in astronomy that was pioneered by Sir Patrick Moore and The Sky at Night

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