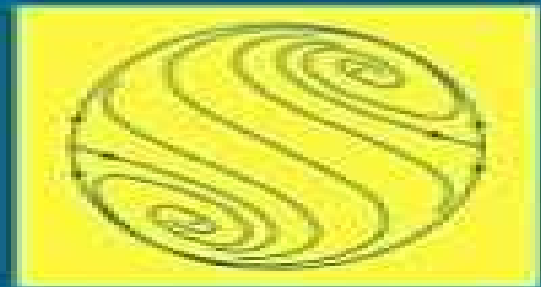


Dynamical Systems in Cosmology



Edited by
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G. P. Ellis

Dynamical Systems And Cosmology Dynamical Systems And Cosmology

O.I. Bogoyavlensky



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Dynamical Systems and Cosmology A.A. Coley, 2003-10-31 Dynamical systems theory is especially well suited for determining the possible asymptotic states at both early and late times of cosmological models particularly when the governing equations are a finite system of autonomous ordinary differential equations In this book we discuss cosmological models as dynamical systems with particular emphasis on applications in the early Universe We point out the important role of self similar models We review the asymptotic properties of spatially homogeneous perfect fluid models in general relativity We then discuss results concerning scalar field models with an exponential potential both with and without barotropic matter Finally we discuss the dynamical properties of cosmological models derived from the string effective action This book is a valuable source for all graduate students and professional astronomers who are interested in modern developments in cosmology

Dynamical Systems in Cosmology J. Wainwright, G. F. R. Ellis, 2005-06-30 This authoritative volume shows how modern dynamical systems theory can help us in understanding the evolution of cosmological models It also compares this approach with Hamiltonian methods and numerical studies A major part of the book deals with the spatially homogeneous Bianchi models and their isotropic subclass the Friedmann Lemaitre models but certain classes of inhomogeneous models for example silent universes are also examined The analysis leads to an understanding of how special high symmetry models determine the evolution of more general families of models and how these families relate to real cosmological observations This is the first book to relate modern dynamical systems theory to both cosmological models and cosmological observations It provides an invaluable reference for graduate students and researchers in relativity cosmology and dynamical systems theory

Dynamical Systems in Cosmology and Astrophysics Ulf Nilsson, 1998 *Dynamical Systems in Cosmology* Nyein Chan, 2012 **Dynamical And Complex Systems** Shaun Bullett, Tom Fearn, Frank Smith, 2016-12-22 This book leads readers from a basic foundation to an advanced level understanding of dynamical and complex systems It is the perfect text for graduate or PhD mathematical science students looking for support in topics such as applied dynamical systems Lotka Volterra dynamical systems applied dynamical systems theory dynamical systems in cosmology aperiodic order and complex systems dynamics Dynamical and Complex Systems is the fifth volume of the LTCC Advanced Mathematics Series This series is the first to provide advanced introductions to mathematical science topics to advanced students of mathematics Edited by the three joint heads of the London Taught Course Centre for PhD Students in the Mathematical Sciences LTCC each book supports readers in broadening their mathematical knowledge outside of their immediate research disciplines while also covering specialized key areas

Dynamical Systems in Cosmology N. Chan, 2012 In this PhD thesis the role of dynamical systems in cosmology has been studied Many systems and processes of cosmological interest can be modelled as dynamical systems Motivated by the concept of hypothetical dark energy that is believed to be responsible for the recently discovered accelerated expansion of the universe various dynamical dark energy models coupled

to dark matter have been investigated using a dynamical systems approach. The models investigated include quintessence, three forms and phantom fields interacting with dark matter in different forms. The properties of these models range from mathematically simple ones to those with better physical motivation and justification. It was often encountered that linear stability theory fails to reveal behaviour of the dynamical systems. As part of this PhD programme, other techniques such as application of the centre manifold theory, construction of Lyapunov functions were considered. Applications of these so-called methods of non-linear stability theory were applied to cosmological models. Aforementioned techniques are powerful tools that have direct applications not only in applied mathematics, theoretical physics and engineering but also in finance, economics, theoretical immunology, neuroscience and many more. One of the main aims of this thesis is to bridge the gap between dynamical systems theory, an area of applied mathematics and cosmology, an exciting area of physics that studies the universe as a whole.

Methods in the Qualitative Theory of Dynamical Systems in Astrophysics and Gas Dynamics O.I. Bogoyavlensky, 1985-08. Homogeneous cosmological models, self-similar motion of self-gravitating gas and motion of gas with homogeneous deformation have important applications in the theory of evolution of the universe. In particular, they can be applied to the theory of explosions of stars, formation of galaxies, pulsation of alternating stars, etc. The equations of general relativity and Newtonian gas dynamics in the cases mentioned above are reduced to systems of a finite but quite large number of ordinary differential equations. In the last two decades, these multi-dimensional dynamical systems were and still are being analyzed by means of traditional analytic and numerical methods. Important dynamical modes of some solutions were thus established. These include oscillatory modes of the space-time metric near a cosmological singularity, self-similar motion of self-gravitating gas with a shock wave and an expanding cavity inside, as in an explosion of a star, collapse of an ellipsoid of self-gravitating dust into a disc, and others. However, the multi-dimensional dynamical systems in question are so complex that a complete analysis of all dynamical modes of the solutions by means of well-known traditional analytic methods does not seem feasible. Therefore, the development of effective methods of qualitative analysis of multi-dimensional dynamical systems and their application to the problems of astrophysics and gas dynamics previously unsolved by traditional methods becomes especially urgent.

Advances in Computational Methods and Modeling for Science and Engineering Hari M. Srivastava, Geeta Arora, Firdous Shah, 2025-02-04. *Advances in Computational Methods and Modelling in Science and Engineering* explores the application of computational techniques and modeling approaches in science and engineering, providing practical knowledge and skills for tackling complex problems using numerical simulations and data analysis. This book addresses the need for a cohesive and up-to-date resource in the rapidly evolving field of computational methods. It consolidates diverse topics, serving as a one-stop guide for individuals seeking a comprehensive understanding of the subject matter. Sections focus on mathematical techniques that provide global solutions for models arising in engineering and scientific research applications by considering their long-term benefits. The mathematical treatment of these models is

very helpful in understanding these models and their real world applications The methods and modeling techniques presented are useful for mathematicians engineers scientists and researchers working on the mathematical treatment of models in a wide range of applications including disciplines such as engineering physics chemistry computer science and applied mathematics Provides comprehensive coverage of computational methods and modeling techniques applicable to science and engineering Emphasizes practical application by providing real world examples Offers practical guidance and step by step examples to help readers overcome challenges related to implementing algorithms interpreting results and effectively applying computational methods in their work 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 **Thirteenth Marcel Grossmann Meeting, The: On Recent Developments In Theoretical And Experimental General Relativity, Astrophysics And Relativistic Field Theories - Proceedings Of The Mg13 Meeting On General Relativity (In 3 Volumes)** Remo Ruffini,Kjell Rosquist,Robert T Jantzen,2015-01-26 The Marcel Grossmann Meetings seek to further the development of the foundations and applications of Einstein s general relativity by promoting theoretical understanding in the relevant fields of physics mathematics astronomy and astrophysics and to direct future technological observational and experimental efforts The meetings discuss recent developments in classical and quantum aspects of gravity and in cosmology and relativistic astrophysics with major emphasis on mathematical foundations and physical predictions having the main objective of gathering scientists from diverse backgrounds for deepening our understanding of spacetime structure and reviewing the current state of the art in the theory observations and experiments pertinent to relativistic gravitation The range of topics is broad going from the more abstract classical theory quantum gravity branes and strings to more concrete relativistic astrophysics observations and modeling The three volumes of the proceedings of MG13 give a broad view of all aspects of gravitational physics and astrophysics from mathematical issues to recent observations and experiments The scientific program of the meeting included 33 morning plenary talks during 6 days and 75 parallel sessions over 4 afternoons Volume A contains plenary and review talks ranging from the mathematical foundations of classical and quantum gravitational theories including recent developments in string brane theories to precision tests of general relativity including progress towards the detection of gravitational waves and from supernova cosmology to relativistic astrophysics including such topics as gamma ray bursts black hole physics both in our galaxy and in active galactic nuclei in other galaxies and neutron star and pulsar astrophysics Volumes B and C include parallel sessions which touch on dark matter neutrinos X ray sources astrophysical black holes neutron stars binary systems radiative transfer accretion disks quasars gamma ray bursts supernovas alternative gravitational theories perturbations of collapsed objects analog models black hole thermodynamics numerical relativity gravitational lensing large scale structure observational cosmology early universe models and cosmic microwave background anisotropies inhomogeneous cosmology

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Order and Chaos in Dynamical Astronomy George Contopoulos, 2004-06-16 This book is one of the first to provide a general overview of order and chaos in dynamical astronomy The progress of the theory of chaos has a profound impact on galactic dynamics It has even invaded celestial mechanics since chaos was found in the solar system which in the past was considered as a prototype of order The book provides a unifying approach to these topics from an author who has spent more than 50 years of research in the field The first part treats order and chaos in general The other two parts deal with order and chaos in galaxies and with other applications in dynamical astronomy ranging from celestial mechanics to general relativity and cosmology Current Topics In Astrofundamental Physics - 1st Course In The International School Of Astrophysics "D Chalonge" Normalized Sanchez, 1992-11-20 This volume provides an updated understanding of the progress and current problems in the interplay between fundamental physics astrophysics and cosmology In the last years the cross section between these fields has been increasing both at the theoretical and experimental levels particle physics experiments astronomical observations space satellite data Such interplay has fruitfully influenced research activity setting up Astrofundamental physics Topics covered in this volume are early universe large scale structure of the universe dark matter problem cosmic microwave background radiation gravitational wave astronomy and neutrino astrophysics The inter relation between these topics is important and a source of problems at the frontiers of present knowledge and experimental limits Latest available data are constraining theory and models in these topics The book reviews achievements confronts theory and models with observations and provides information on the latest developments and discussions on future prospects It also includes a section on stellar spectroscopy and spectrophotometry which covers Daniel Chalonge's work as well as present progress and future prospects in these fields *Mathematical Reviews* ,1999 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 **Proceedings of the Eleventh Marcel Grossmann Meeting on General Relativity** Hagen Kleinert, Robert T. Jantzen, Remo Ruffini, 2008 Physics Briefs ,1993 **Methods in the Qualitative Theory of Dynamical Systems in Astrophysics and Gas Dynamics** O.I. Bogoyavlensky, 1985 Homogeneous cosmological models self similar motion of self gravitating gas and motion of gas with

homogeneous deformation have important applications in the theory of evolution of the universe. In particular, they can be applied to the theory of explosions, stars, formation of galaxies, pulsation of alternating stars, etc. The equations of general relativity and Newtonian gas dynamics in the cases mentioned above are reduced to systems of a finite but quite large number of ordinary differential equations. In the last two decades, these multi-dimensional dynamical systems were and still are being analyzed by means of traditional analytic and numerical methods. Important dynamical modes of some solutions were thus established. These include oscillatory modes of the space-time metric near a cosmological singularity, self-similar motion of self-gravitating gas with a shock wave and an expanding cavity inside as in an explosion, collapse of an ellipsoid of self-gravitating dust into a disc, and others. However, the multi-dimensional dynamical systems in question are so complex that a complete analysis of all dynamical modes of the solutions by means of well-known traditional analytic methods does not seem feasible. Therefore, the development of effective methods of qualitative analysis of multi-dimensional dynamical systems and their application to the problems of astrophysics and gas dynamics previously unsolved by traditional methods becomes especially urgent. Canadian Journal of Physics, 2016 Vibration Problems ICOVP 2011 : the 10th International Conference on Vibration Problems, 2011

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