

ESSAYS PRESENTED TO W. E. BONNOR ON HIS 65TH BIRTHDAY

GALAXIES, AXISYMMETRIC SYSTEMS AND RELATIVITY

EDITED BY
M. A. H. MACCALLUM

Galaxies Axisymmetric Systems And Relativity

Bernd G. Schmidt



Galaxies Axisymmetric Systems And Relativity:

Galaxies, Axisymmetric Systems and Relativity M. A. H. MacCallum, 1985-11-07 This 1985 book comprises essays reviewing areas of the applications of gravity theory to which Professor Bonnor had contributed The influence of his work in two important fields of interest to astronomers physicists and mathematicians galaxy formation and the study of axisymmetric solutions in general relativity is well recognised

Literature 1986, Part 1 Prof. Dr. Roland Wielen, S. Böhme, U. Esser, H. Hefele, Inge Heinrich, W. Hofmann, D. Krahn, V. R. Matas, Dr. Lutz D. Schmädel, G. Zech, 2013-04-17

Dynamical Systems and Cosmology A.A. Coley, 2013-04-17 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

Einstein's Field Equations and Their Physical Implications Bernd G. Schmidt, 2008-01-11 This book serves two purposes The authors present important aspects of modern research on the mathematical structure of Einstein's field equations and they show how to extract their physical content from them by mathematically exact methods The essays are devoted to exact solutions and to the Cauchy problem of the field equations as well as to post Newtonian approximations that have direct physical implications Further topics concern quantum gravity and optics in gravitational fields The book addresses researchers in relativity and differential geometry but can also be used as additional reading material for graduate students

Relativistic Astrophysics And Cosmology J Buitrago, E Mediavilla, Alejandro Oscoz, 1997-10-22 This volume contains original material and fresh ideas from the world's leading specialists on a wide range of topics in general relativity astrophysics and cosmology The topics range from the localization of the gravitational field energy and gravitational waves the physics of black holes and time machines to the latest discoveries concerning black hole candidates and COSMOSOMAS imprints on the relic radiation The volume serves as a guide to some trends of research in general relativity and cosmology and will be of great interest to the professional relativist as well as newcomers to the field

Highlights in Gravitation and Cosmology B. R. Iyer, 1988

Selected Topics In Quantum Field Theory And Mathematical Physics J Fischer, J Niederle, 1990-05-01

Geometry And Integrable Models: Proceedings Of The Workshop P N Pyatov, S N Solodukhin, 1996-04-25 These proceedings are aimed at providing an advanced survey of topics in contemporary theoretical physics integrable models geometrical aspects of quantization quantum groups W algebras exactly solvable models of 2D and

higher dimensional gravity A special emphasis is made on a deep interplay of algebra geometry and modern physics

Further Advances in Twistor Theory L.J. Mason, L. Hughston, 1995-04-04 Twistor theory is the remarkable mathematical framework that was discovered by Roger Penrose in the course of research into gravitation and quantum theory It has since developed into a broad many faceted programme that attempts to resolve basic problems in physics by encoding the structure of physical fields and indeed space time itself into the complex analytic geometry of twistor space Twistor theory has important applications in diverse areas of mathematics and mathematical physics These include powerful techniques for the solution of nonlinear equations in particular the self duality equations both for the Yang Mills and the Einstein equations new approaches to the representation theory of Lie groups and the quasi local definition of mass in general relativity to name but a few This volume and its companions comprise an abundance of new material including an extensive collection of Twistor Newsletter articles written over a period of 15 years These trace the development of the twistor programme and its applications over that period and offer an overview on the current status of various aspects of that programme The articles have been written in an informal and easy to read style and have been arranged by the editors into chapter supplemented by detailed introductions making each volume self contained and accessible to graduate students and nonspecialists from other fields Volume II explores applications of flat twistor space to nonlinear problems It contains articles on integrable or soluble nonlinear equations conformal differential geometry various aspects of general relativity and the development of Penrose's quasi local mass construction *Three Hundred Years of Gravitation* Stephen Hawking, W. Israel, 1987 A collection of reviews by prominent researchers in cosmology relativity and particle physics commemorates the 300th anniversary of Newton's *Philosophiæ Naturalis Principia Mathematica* *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 Lemaître 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

Relativistic Cosmology George F. R. Ellis, Roy

Maartens, Malcolm A. H. MacCallum, 2012-03-22 Surveying key 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

Representations of Lie Groups, Kyoto, Hiroshima, 1986 K. Okamoto, T. Oshima, 2014-07-22

Representations of Lie Groups Kyoto Hiroshima 1986 contains the proceedings of a symposium on Analysis on Homogeneous Spaces and Representations of Lie Groups held on September 1-6 1986 in Japan The symposium provided a forum for discussing Lie groups and covered topics ranging from geometric constructions of representations to the irreducibility of discrete series representations for semisimple symmetric spaces A classification theory of prehomogeneous vector spaces is also described Comprised of 22 chapters this volume first considers the characteristic varieties of certain modules over the enveloping algebra of a semisimple Lie algebra such as highest weight modules and primitive quotients The reader is then introduced to multiplicity one theorems for generalized Gelfand Graev representations of semisimple Lie groups and Whittaker models for the discrete series Subsequent chapters focus on Lie algebra cohomology and holomorphic continuation of generalized Jacquet integrals the generalized Geroch conjecture algebraic structures on virtual characters of a semisimple Lie group and fundamental groups of semisimple symmetric spaces The book concludes with an analysis of the boundedness of certain unitarizable Harish-Chandra modules This monograph will appeal to students specialists and researchers in the field of pure mathematics

God and the Universe Arthur Gibson, 2013-10-11 Ambitious controversial and absorbing God

and the Universe tackles the highly charged issue of God's relevance in the light of new scientific thinking on cosmology

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reinvigorates religious debate for the new millennium

Japanese Science and Technology, 1988

INIS Atomindex, 1986

Selected Papers, Volume 6 Subrahmanyan Chandrasekhar, 1991-04-09 This is the first of six volumes collecting significant papers of the distinguished astrophysicist and Nobel laureate S Chandrasekhar His work is notable for its breadth as well as for its brilliance his practice has been to change his focus from time to time to pursue new areas of research The result has been a prolific career full of discoveries and insights some of which are only now being fully appreciated Chandrasekhar has selected papers that trace the development of his ideas and that present aspects of his work not fully covered in the books he has periodically published to summarize his research in each area

Fundamental Interactions and

Twistor-like Methods Jerzy Lukierski, Dmitri Sorokin, 2005-06-16 All papers were peer reviewed The volume contains reports on work done in areas of field theory supersymmetry string theory higher spins and related topics using group theoretical

and geometrical methods which involve one way or another twistor like techniques singletons harmonics superembeddings
and twistors themselves **International Aerospace Abstracts** ,1990 *Astronomy* ,1987

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