

Progress in Mathematical Physics



Sergiu Klainerman  
Francesco Nicolò

# The Evolution Problem in General Relativity



**Birkhäuser**

# The Evolution Problem In General Relativity

**Gordon Belot**



## **The Evolution Problem in General Relativity:**

**The Evolution Problem in General Relativity** Sergiu Klainerman, Francesco Nicolò, 2012-12-06 The main goal of this work is to revisit the proof of the global stability of Minkowski space by D Christodoulou and S Klainerman Ch KI We provide a new self contained proof of the main part of that result which concerns the full solution of the radiation problem in vacuum for arbitrary asymptotically flat initial data sets This can also be interpreted as a proof of the global stability of the external region of Schwarzschild spacetime The proof which is a significant modification of the arguments in Ch KI is based on a double null foliation of spacetime instead of the mixed null maximal foliation used in Ch KI This approach is more naturally adapted to the radiation features of the Einstein equations and leads to important technical simplifications In the first chapter we review some basic notions of differential geometry that are systematically used in all the remaining chapters We then introduce the Einstein equations and the initial data sets and discuss some of the basic features of the initial value problem in general relativity We shall review without proofs well established results concerning local and global existence and uniqueness and formulate our main result The second chapter provides the technical motivation for the proof of our main theorem

**The Evolution Problem of General Relativity** Jakob Hansen, 2001 **The Cauchy Problem in General Relativity** Hans Ringström, 2009 The general theory of relativity is a theory of manifolds equipped with Lorentz metrics and fields which describe the matter content Einstein's equations equate the Einstein tensor a curvature quantity associated with the Lorentz metric with the stress energy tensor an object constructed using the matter fields In addition there are equations describing the evolution of the matter Using symmetry as a guiding principle one is naturally led to the Schwarzschild and Friedmann Lemaitre Robertson Walker solutions modelling an isolated system and the entire universe respectively In a different approach formulating Einstein's equations as an initial value problem allows a closer study of their solutions This book first provides a definition of the concept of initial data and a proof of the correspondence between initial data and development It turns out that some initial data allow non isometric maximal developments complicating the uniqueness issue The second half of the book is concerned with this and related problems such as strong cosmic censorship The book presents complete proofs of several classical results that play a central role in mathematical relativity but are not easily accessible to those without prior background in the subject Prerequisites are a good knowledge of basic measure and integration theory as well as the fundamentals of Lorentz geometry The necessary background from the theory of partial differential equations and Lorentz geometry is included

**Global Structure and Evolution in General Relativity** Spiros Cotsakis, Gary W. Gibbons, 2014-03-12 The five lectures presented in this volume address very timely mathematical problems in relativity and cosmology Part I is devoted to the initial value and evolution problems of the Einstein equations Especially it deals with the Einstein Yang Mills Boltzmann system fluid models with finite or infinite conductivity global evolution of a new two phase model for gravitational collapse and the structure of maximal asymptotically flat vacuum solutions of the constraint equations

which have the additional property of containing trapped surfaces Part II focuses on geometrical topological problems in relativity and cosmology on the role of cosmic censorship for the global structure of the Einstein Maxwell equations and on the mathematical structure of quantum conformal superspace *Particles And Fields - Proceedings Of The 1993 Workshop* R Huerta, Miguel Angel Perez, Luis F Urrutia, 1994-08-01 This book is principally concerned with the relatively complex small molecules produced by plants which are important as drugs fine chemicals fragrances flavours and biologically active dietary constituents In a wide ranging series of thematic essays it covers key aspects of their role in plant ecology their metabolism in the plant their discovery characterisation and use and their significance in the diet Biotechnology including prospects for the genetic engineering of metabolic pathways for biotransformations and also for the production of biologically active proteins is the focus of the final section of the book The overall aim of the volume is to provide in each of the selected subject areas a personal critique which is readily accessible to the advanced undergraduate student and to the non specialist research worker alike

**Dynamics of Extremal Black Holes** Stefanos Aretakis, 2018-11-02 This Brief presents in a self contained non technical and illustrative fashion the state of the art results and techniques for the dynamics of extremal black holes Extremal black holes are roughly speaking either maximally rotating or maximally charged Astronomical observations suggest that near extremal stellar or supermassive black holes are ubiquitous in the universe The book presents various recently discovered characteristic phenomena such as the horizon instability that have enhanced our understanding of the dynamics of extremal black holes The topics should be of interest to pure mathematicians theoretical physicists and astronomers This book provides common ground for communication between these scientific communities

**Accelerating Expansion** Gordon Belot, 2023-08-24 Accelerating Expansion explores some of the philosophical implications of modern cosmology focused on the significance that the discovery of the accelerating expansion of the Universe has for our understanding of time geometry and physics The appearance of the cosmological constant in the equations of general relativity allows one to model universes in which space has an inherent tendency towards expansion This constant introduced by Einstein but subsequently abandoned by him returned to centre stage with the discovery of the accelerating expansion This pedagogically oriented essay begins with a study of the most basic and elegant relativistic world that involves a positive cosmological constant de Sitter spacetime It then turns to the relatives of de Sitter spacetime that dominate modern relativistic cosmology Some of the topics considered include the nature of time and simultaneity in de Sitter worlds the sense in which de Sitter spacetime is a powerful dynamical attractor the limited extent to which observation can give us information about the topology of space in a world undergoing accelerated expansion and cosmologists favourite sceptical worry about the reliability of evidence and the possibility of knowledge the problem of Boltzmann brains

**Evolution Equations** David Ellwood, Igor Rodnianski, Gigliola Staffilani, Jared Wunsch, 2013-06-26 This volume is a collection of notes from lectures given at the 2008 Clay Mathematics Institute Summer School held in Zurich Switzerland The lectures were

designed for graduate students and mathematicians within five years of the Ph D and the main focus of the program was on recent progress in the theory of evolution equations Such equations lie at the heart of many areas of mathematical physics and arise not only in situations with a manifest time evolution such as linear and nonlinear wave and Schrödinger equations but also in the high energy or semi classical limits of elliptic problems The three main courses focused primarily on microlocal analysis and spectral and scattering theory the theory of the nonlinear Schrödinger and wave equations and evolution problems in general relativity These major topics were supplemented by several mini courses reporting on the derivation of effective evolution equations from microscopic quantum dynamics on wave maps with and without symmetries on quantum N body scattering diffraction of waves and symmetric spaces and on nonlinear Schrödinger equations at critical regularity Although highly detailed treatments of some of these topics are now available in the published literature in this collection the reader can learn the fundamental ideas and tools with a minimum of technical machinery Moreover the treatment in this volume emphasizes common themes and techniques in the field including exact and approximate conservation laws energy methods and positive commutator arguments Titles in this series are co published with the Clay Mathematics Institute Cambridge MA *Advances in Conservation Research and Application: 2012 Edition*, 2012-12-26 *Advances in Conservation Research and Application 2012 Edition* is a ScholarlyEditions eBook that delivers timely authoritative and comprehensive information about Conservation The editors have built *Advances in Conservation Research and Application 2012 Edition* on the vast information databases of ScholarlyNews You can expect the information about Conservation in this eBook to be deeper than what you can access anywhere else as well as consistently reliable authoritative informed and relevant The content of *Advances in Conservation Research and Application 2012 Edition* has been produced by the world's leading scientists engineers analysts research institutions and companies All of the content is from peer reviewed sources and all of it is written assembled and edited by the editors at ScholarlyEditions and available exclusively from us You now have a source you can cite with authority confidence and credibility More information is available at <http://www.ScholarlyEditions.com> *Encyclopedia of Mathematical Physics* Jean-Pierre Francoise, Gregory L. Naber, Sheung Tsun Tsou, 2006 The *Encyclopedia of Mathematical Physics* provides a complete resource for researchers students and lecturers with an interest in mathematical physics It enables readers to access basic information on topics peripheral to their own areas to provide a repository of the core information in the area that can be used to refresh the researcher's own memory banks and aid teachers in directing students to entries relevant to their course work The *Encyclopedia* does contain information that has been distilled organised and presented as a complete reference tool to the user and a landmark to the body of knowledge that has accumulated in this domain It also is a stimulus for new researchers working in mathematical physics or in areas using the methods originating from work in mathematical physics by providing them with focused high quality background information Editorial Board Jean Pierre Fran oise Universit Pierre et Marie Curie Paris France Gregory L

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G. Blair, David G. Blair, Michael J. Buckingham, 1989     Mathematical Reviews, 2006     Proceedings of the Fourth Marcel Grossmann Meeting on General Relativity, Held at the University of Rome "La Sapienza", 17-21 June, 1985: Parallel sessions  
Remo Ruffini, 1986

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