

LECTURE NOTES IN PHYSICS

J. Frauendiener · H. Friedrich (Eds.)

The Conformal Structure of Space-Time

Geometry, Analysis,
Numerics



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The Conformal Structure Of Space Time Geometry

Analysis Numerics

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The Einstein Equations and the Large Scale Behavior of Gravitational Fields Piotr T. Chrusciel, Helmut Friedrich, 2012-12-06 The book presents state of the art results on the analysis of the Einstein equations and the large scale structure of their solutions It combines in a unique way introductory chapters and surveys of various aspects of the analysis of the Einstein equations in the large It discusses applications of the Einstein equations in geometrical studies and the physical interpretation of their solutions Open problems concerning analytical and numerical aspects of the Einstein equations are pointed out Background material on techniques in PDE theory differential geometry and causal theory is provided

Relativity and Gravitation Jiří Bičák, Tomáš Ledvinka, 2014-06-06 In early April 1911 Albert Einstein arrived in Prague to become full professor of theoretical physics at the German part of Charles University It was there for the first time that he concentrated primarily on the problem of gravitation Before he left Prague in July 1912 he had submitted the paper Relativit t und Gravitation Erwiderung auf eine Bemerkung von M Abraham in which he remarkably anticipated what a future theory of gravity should look like At the occasion of the Einstein in Prague centenary an international meeting was organized under a title inspired by Einstein s last paper from the Prague period Relativity and Gravitation 100 Years after Einstein in Prague The main topics of the conference included classical relativity numerical relativity relativistic astrophysics and cosmology quantum gravity experimental aspects of gravitation and conceptual and historical issues The conference attracted over 200 scientists from 31 countries among them a number of leading experts in the field of general relativity and its applications This volume includes abstracts of the plenary talks and full texts of contributed talks and articles based on the posters presented at the conference

These describe primarily original results of the authors Full texts of the plenary talks are included in the volume General Relativity Cosmology and Astrophysics Perspectives 100 Years after Einstein in Prague eds J Bi k and T Ledvinka published also by Springer Verlag *Beyond Einstein* David E. Rowe,Tilman Sauer,Scott A. Walter,2018-06-18 Beyond Einstein Perspectives on Geometry Gravitation and Cosmology explores the rich interplay between mathematical and physical ideas by studying the interactions of major actors and the roles of important research communities over the course of the last century **Conformal Methods in General Relativity** Juan A. Valiente Kroon,2023-02-09 This 2016 volume now reissued as OA shows how conformal methods can be used to study Einstein s theory of gravity 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 *Cycles of Time* Roger Penrose,2011-09-06 From Nobel prize winner Roger Penrose this groundbreaking book is for anyone who is interested in the world how it works and how it got here New York Journal of Books Penrose presents a new perspective on three of cosmology s essential questions What came before the Big Bang What is the source of order in our universe And what cosmic future awaits us He shows how the expected fate of our ever accelerating and expanding universe heat death or ultimate entropy can actually be reinterpreted as the conditions that will begin a new Big Bang He details the basic principles beneath our universe explaining various standard and non standard cosmological models the fundamental role of the cosmic microwave background the paramount significance of black holes and other basic building blocks of contemporary physics Intellectually thrilling and widely accessible Cycles of Time is a welcome new contribution to our understanding of the universe from one of our greatest mathematicians and thinkers *Iaeng Transactions On Engineering Sciences: Special Issue For The International Association Of Engineers Conferences 2015* Sio-iong Ao,Alan Hoi-shou Chan,Hideki Katagiri,Li Xu,2016-08-10 Two large international conferences on Advances in Engineering Sciences were held in Hong Kong March 18 20 2015 under the International MultiConference of Engineers and Computer Scientists IMECS 2015 and in London UK 1 3 July 2015 under the

World Congress on Engineering WCE 2015 respectively This volume contains 35 revised and extended research articles written by prominent researchers participating in the conferences Topics covered include engineering mathematics computer science electrical engineering manufacturing engineering industrial engineering and industrial applications The book offers state of the art advances in engineering sciences and also serves as an excellent reference work for researchers and graduate students working with on engineering sciences

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