

Rotating Relativistic Stars

JOHN L. FRIEDMAN
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CAMBRIDGE MONOGRAPHS
ON MATHEMATICAL PHYSICS

Rotating Relativistic Stars Cambridge Monographs On Mathematical Physics

Luca Lusanna



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The Physics and Astrophysics of Neutron Stars Luciano Rezzolla, Pierre Pizzochero, David Ian Jones, Nanda Rea, Isaac Vidana, 2019-01-09 This book summarizes the recent progress in the physics and astrophysics of neutron stars and most importantly it identifies and develops effective strategies to explore both theoretically and observationally the many remaining open questions in the field Because of its significance in the solution of many fundamental questions in nuclear physics astrophysics and gravitational physics the study of neutron stars has seen enormous progress over the last years and has been very successful in improving our understanding in these fascinating compact objects The book addresses a wide spectrum of readers from students to senior researchers Thirteen chapters written by internationally renowned experts offer a thorough overview of the various facets of this interdisciplinary science from neutron star formation in supernovae pulsars equations of state super dense matter gravitational wave emission to alternative theories of gravity The book was initiated by the European Cooperation in Science and Technology COST Action MP1304 Exploring fundamental physics with compact stars NewCompStar

[Recent Progress on Gravity Tests](#) Cosimo Bambi, Alejandro Cárdenas-Avendaño, 2024-07-09 Einstein's theory of general relativity is one of the pillars of modern physics and it is our standard framework for describing gravitational fields and the spacetime structure So far general relativity has passed all experimental tests and agrees with observations However the past few years have seen remarkable observational improvements and new techniques that continually challenge the theory's predictions routinely detect the gravitational wave signals from the coalescence of black holes and neutron stars can image the supermassive black holes at the center of our Galaxy and of the galaxy M87 can analyze the properties of the X ray radiation emitted from the very inner part of the

accretion disks of several black holes and keep improving laboratory and Solar System experiments This book offers an updated self consistent overview future perspectives and challenges of experimental and observational tests of gravity with both gravitational and electromagnetic spectra It includes the recent results of laboratory tests of gravity solar system experiments tests of gravity in the strong field regime with astrophysical compact objects and tests of gravity on large scales with cosmological observations

Modified Gravity and Cosmology Emmanuel N. Saridakis, Ruth Lazkoz, Vincenzo Salzano, Paulo Vargas Moniz, Salvatore Capozziello, Jose Beltrán Jiménez, Mariafelicia De Laurentis, Gonzalo J. Olmo, 2021-12-10 With a focus on modified gravity this book presents a review of the recent developments in the fields of gravity and cosmology presenting the state of the art high lighting the open problems and outlining the directions of future research General Relativity and the Λ CDM framework are currently the standard lore and constitute the concordance paradigm of cosmology Nevertheless long standing open theoretical issues as well as possible new observational ones arising from the explosive development of cosmology in the last two decades offer the motivation and lead a large amount of research to be devoted in constructing various extensions and modifications In this review all extended theories and scenarios are first examined under the light of theoretical consistency and are then applied in various geometrical backgrounds such as the cosmological and the spherical symmetric ones Their predictions at both the background and perturbation levels and concerning cosmology at early intermediate and late times are then confronted with the huge amount of observational data that astrophysics and cosmology has been able to offer in the last two decades Theories scenarios and models that successfully and efficiently pass the above steps are classified as viable and are candidates for the description of Nature allowing readers to get a clear overview of the state of the art and where the field of modified gravity is likely to go This work was performed in the framework of the COST European Action Cosmology and Astrophysics Network for Theoretical Advances and Training Actions CANTATA

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energy theorem which is presented in detail together with the required tools on spin structures and spinor analysis In Part III all of the differential geometric tools required are developed in detail A great deal of effort went into refining and improving the text for the new edition New material has been added including a chapter on cosmology The book addresses undergraduate and graduate students in physics astrophysics and mathematics It utilizes a very well structured approach which should help it continue to be a standard work for a modern treatment of gravitational physics The clear presentation of differential geometry also makes it useful for work on string theory and other fields of physics classical as well as quantum

Exact Solutions in Three-Dimensional Gravity Alberto A. García-Díaz, 2017-09-07 A self contained and unique text systematically presenting the determination and classification of exact solutions in three dimensional Einstein gravity Including contributions by David Chow Christopher N Pope and Ergin Sezgin chapters 16 19 **Noether Symmetries in Theories of Gravity** Francesco Bajardi, Salvatore Capozziello, 2022-11-24 This volume summarizes the many alternatives and extensions to Einstein's General Theory of Relativity and shows how symmetry principles can be applied to identify physically viable models The first part of the book establishes the foundations of classical field theory providing an introduction to symmetry groups and the Noether theorems A quick overview of general relativity is provided including discussion of its successes and shortcomings then several theories of gravity are presented and their main features are summarized In the second part the Noether Symmetry Approach is applied to theories of gravity to identify those which contain symmetries In the third part of the book these selected models are tested through comparison with the latest experiments and observations This constrains the free parameters in the selected models to fit the current data demonstrating a useful approach that will allow researchers to construct and constrain modified gravity models for further applications

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