



Neutron Stars: Theory and Observation

Edited by

Joseph Ventura and David Pines

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Neutron Stars Theory And Observation

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Neutron Stars Theory And Observation:

Neutron Stars: Theory and Observation J.E Ventura, David Pines, 2012-12-06 Some twenty three years after the discovery of pulsars and their identification as rotating neutron stars neutron star physics may be regarded as coming of age Pulsars and accreting neutron stars have now been studied at every wavelength from the initial radio observations through optical X and ray up to the very recent observations in the TeV region while theorists have studied in some detail relevant physical processes both outside and inside neutron stars As a result comparison of theory with observation provides a test of four theoretical ideas in fields as diverse as neutron and nuclear matter superfluidity and superconductivity the acceleration of high energy particles and the generation and maintenance of intense magnetic fields For example through observations of glitches and post glitch behavior of pulsars it has become possible to establish the presence of superfluid neutron matter in the inner crust of neutron stars and to determine some of its properties while neutron stars in compact binary systems offer one of the most efficient energy generation mechanisms known It is in fact the interactive interpretation of these diverse pieces of information that can lead to major advances in our understanding of the physics of these exotic objects and justifies the characterization of neutron stars as hadron physics laboratories

Neutron Stars 1 P. Haensel, A.Y. Potekhin, D.G. Yakovlev, 2007-12-06 Neutron stars play a unique role in physics and astrophysics On the one hand they contain matter under extreme physical conditions and their theories are based on risky and far extrapolations of what we consider reliable physical theories of the structure of matter tested in laboratory On the other hand their observations offer the unique opportunity to test these theories Moreover neutron stars are important dramatic players on the stage of modern astrophysics they participate in many astronomical phenomena

3 Neutron stars contain the matter of density ranging from a few g cm^{-3} at their surface where the pressure is small to more than $10^{10} \text{ g cm}^{-3}$ at the center where the pressure exceeds $10^{11} \text{ dyn cm}^{-2}$ To calculate neutron star structure one needs the dependence of the pressure on density the so called equation of state EOS in this huge density range taking due account of temperature more than 10^8 K in young neutron stars and magnetic fields sometimes above 10^{11} G The present book is mainly devoted to the theory of the EOS of neutron star matter and its consequences for neutron star structure As one moves from the neutron star surface to the center the methods to calculate the EOS change Atomic structure and plasma theories are used for the surface stellar layers Deeper layers of the neutron star crust require nuclear theory combined with plasma physics both in very exotic density temperature regimes Finally the neutron star core necessitates many body theory of dense strongly interacting systems together with the physics of strong interactions of elementary particles

Neutron Stars and Pulsars Werner Becker, 2009-02-11 Neutron stars are the most compact astronomical objects in the universe which are accessible by direct observation Studying neutron stars means studying physics in regimes unattainable in any terrestrial laboratory Understanding their observed complex phenomena requires a wide range of scientific disciplines including the nuclear and

condensed matter physics of very dense matter in neutron star interiors plasma physics and quantum electrodynamics of magnetospheres and the relativistic magneto hydrodynamics of electron positron pulsar winds interacting with some ambient medium Not to mention the test bed neutron stars provide for general relativity theories and their importance as potential sources of gravitational waves It is this variety of disciplines which among others makes neutron star research so fascinating not only for those who have been working in the field for many years but also for students and young scientists The aim of this book is to serve as a reference work which not only reviews the progress made since the early days of pulsar astronomy but especially focuses on questions such as What have we learned about the subject and how did we learn it What are the most important open questions in this area and What new tools telescopes observations and calculations are needed to answer these questions All authors who have contributed to this book have devoted a significant part of their scientific careers to exploring the nature of neutron stars and understanding pulsars Everyone has paid special attention to writing educational comprehensive review articles with the needs of beginners students and young scientists as potential readers in mind This book will be a valuable source of information for these groups

Theory of Neutron Star Magnetospheres F. Curtis Michel, 1991 An incomparable reference for astrophysicists studying pulsars and other kinds of neutron stars Theory of Neutron Star Magnetospheres sums up two decades of astrophysical research It provides in one volume the most important findings to date on this topic essential to astrophysicists faced with a huge and widely scattered literature F Curtis Michel who was among the first theorists to propose a neutron star model for radio pulsars analyzes competing models of pulsars radio emission models winds and jets from pulsars pulsating X ray sources gamma ray burst sources and other neutron star driven phenomena Although the book places primary emphasis on theoretical essentials it also provides a considerable introduction to the observational data and its organization Michel emphasizes the problems and uncertainties that have arisen in the research as well as the considerable progress that has been made to date

Timing Neutron Stars: Pulsations, Oscillations and Explosions Tomaso M. Belloni, Mariano Méndez, Chengmin Zhang, 2020-10-23 Neutron stars whether isolated or in a binary system display a varied and complex phenomenology often accompanied by extreme variability of many time scales which takes the form of pulsations due to the object rotation quasi periodicities associated to accretion of matter and explosions due to matter accreted on the surface or to starquakes of highly magnetized objects This book gives an overview of the current observational and theoretical standpoint in the research on the physics under the extreme conditions that neutron stars naturally provide The six chapters explore three physical regions of a neutron star the space around it where accretion and pulsar companions allow testing of general relativity its surface where millisecond pulsation and X ray burts provide clues about general relativistic effects and the equation of state of neutron matter its interior of course inaccessible to direct observations can nevertheless be probed with all observational parameters related to neutron star variability

The Lives of the Neutron Stars M. A. Alpar, Ü Kızıloğlu, Jan van Paradijs, 1995 This NATO AS was

the third in the series of Advanced Study Institutes on neutron stars which started with Timing Neutron Stars held in Oe me near izmir Turkey April 1988 followed by Neutron Stars an Interdisciplinary Subject held in Agia Pelagia on the island of Crete September 1990 The first school centered on our main observational access to neutron stars i e the timing of radio pulsars and accretion powered neutron stars and on what timing of neutron stars teaches us of their structure and environment The second school had as its theme the interplay between diverse areas of physics which find interesting even exotic applications in the extreme conditions of neutron stars and their magnetospheres As the field has developed with the number of observed neutron stars rapidly increasing and our knowledge of many individual neutron stars getting deeper and more detailed an evolutionary picture of neutron stars has started to emerge This led us to choose The Lives of the Neutron Stars as the unifying theme of this third Advanced Study Institute on neutron stars Different types of neutron star activity have been proposed to follow one another in stages during the lives of neutron stars in the same basic population the evolutionary connection between low mass X ray binaries and millisecond radio pulsars is perhaps the prime example

The Physics and Astrophysics of Neutron Stars Luciano Rezzolla, Pierre Pizzochero, David Ian Jones, Nanda Rea, Isaac Vidaña, 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 In Many-body Theories - Proceedings Of The 10th International Conference Raymond F Bishop, Klaus A Gernoth, Niels R Walet, Yang Xian, 2000-09-06 Quantum many body theory as a discipline in its own right dates largely from the 1950 s It has developed since then to its current position as one of the cornerstones of modern theoretical physics The field remains vibrant and active vigorous and exciting Indeed its successes and importance were vividly illustrated prior to the conference by the sharing of the 1998 Nobel Prizes in both Physics and Chemistry by three many body theorists Two of those Nobel laureates Walter Kohn and Bob Laughlin delivered invited lectures at this meeting the tenth in the series of International Conferences on Recent Progress in Many Body Theories This series is universally recognized as being the premier series of meetings on this subject and its proceedings have always summarized the current state of the art through the lectures of its leading practitioners The present volume is no exception A

major aim of this conference series has been to foster the exchange of ideas between physicists working in all the diverse fields of application of quantum many body theory These include nuclear and subnuclear physics quantum fluids strongly correlated electronic systems and low dimensional condensed matter systems and materials All of these fields and others are represented in the present volume Other topical themes covered include density functional theory and its applications to nuclear and electronic systems quantum dots and chaos and trapped Bose Einstein condensates Through this breadth of applications the reader will get a clear illustration of the power of the tools of modern microscopic quantum many body theory and their usefulness both in achieving a commonality of approach and understanding and in transferring powerful ideas from one field to another

General Relativity, Astrophysics, and Cosmology A.K. Raychaudhuri, S. Banerji, A. Banerjee, 2003-11-14 For about half a century the general theory of relativity attracted little attention from physicists However the discovery of compact objects such as quasars and pulsars as well as candidates for black holes on the one hand and the microwave background radiation on the other hand completely changed the picture In addition developments in elementary particle physics such as predictions of the behavior of matter at the ultrahigh energies that might have prevailed in the early stages of the big bang have greatly enhanced the interest in general relativity These developments created a large body of readers interested in general relativity and its applications in astrophysics and cosmology Having neither the time nor the inclination to delve deeply into the technical literature such readers need a general introduction to the subject before exploring applications It is for these readers that the present volume is intended Keeping in mind the broad range of interests and wanting to avoid mathematical complications as much as possible we have ventured to combine all three topics relativity astrophysics and cosmology in a single volume Naturally we had to make a careful selection of topics to be discussed in order to keep the book to a manageable length

Neutron Stars, Black Holes and Binary X-Ray Sources H. Gursky, Remo Ruffini, 2013-04-17 This book contains a set of articles based on a session of the annual meeting of the American Association for the Advancement of Science held in San Francisco in February 1974 The reason for the meeting arose from the need to communicate to the largest possible scientific community the dramatic advances which have been made in recent years in the understanding of collapsed objects neutron stars and black holes Thanks to an unprecedented resonance between X ray y ray radio and optical astronomy and important new theoretical developments in relativistic astrophysics a new deep understanding has been acquired of the physical processes occurring in the late stages of evolution of stars This knowledge may be one of the greatest conquests of man's understanding of nature in this century This book aims to give an essential and up to date view in this field The analysis of the physics and astrophysics of neutron stars and black holes is here attacked from both theoretical and experimental points of view In the experimental field we range from the reviews and catalogues of galactic X ray sources R Gursky and E Schreier and pulsars E Groth to the observations of the optical counterpart of X ray sources P Boynton to finally the recently discovered gamma ray bursts I Strong and pulse

astronomy R B Partridge *Learning About Neutron Stars & Black Holes Using Multi-Messenger Observations of Binary Systems* Praveer Tiwari,2023 In this dissertation we further our understanding of black holes and neutron stars by combining information from various astrophysical observations theoretical calculations and terrestrial experiments We start by understanding the properties of these two objects when they occur as binaries and learn about different ways through which we can characterize them In the second chapter we detail a machine learning model that we developed to facilitate early alerts for the detection of gravitational waves from binary black holes In the following chapter we detail the framework through which we can characterize a neutron star We discuss the mathematical formulation of equations that govern the structure of a neutron star This is followed by constraining the parameters of the equation of state model for a neutron star using nuclear theory calculations and observations from binary neutron stars and pulsars Finally we discuss about the dynamics of superfluid neutrons in the inner crust of a neutron star and probe how it can lead to pulsar glitches The machine learning model was successful in reducing the computational time for calculating the gravitational waveforms for binary black holes by an order of magnitude On the other hand the framework developed in this work to constrain the parameters of the equation of state model could consistently combine the uncertainties from chiral effective field theory calculations phenomenological potential based nuclear calculations and astrophysical observations Finally we developed a one dimensional shallow water equation to model the dissipation in the three dimensional Gross Pitaevskii equation that governs the dynamics inside a Bose Einstein condensate This formulation will be useful in modeling the dissipation of energy in the inner crust of a neutron star and thereby help us study pulsar glitches in terms of inner crust dynamics

High-energy Studies of Supernova Remnants and Neutron Stars Willem Hermsen,2004

Black Holes, White Dwarfs, and Neutron Stars Stuart L. Shapiro,Saul A. Teukolsky,2008-11-20 This self contained textbook brings together many different branches of physics e g nuclear physics solid state physics particle physics hydrodynamics relativity to analyze compact objects The latest astronomical data is assessed Over 250 exercises

An Introduction to General Relativity and Cosmology Steven A. Balbus,2026-01-13 An engaging and authoritative introduction to general relativity and cosmology for graduate students and advanced undergraduates General relativity has entered a new phase of its development as technical advances have led to the direct detection of gravitational radiation from the merging of single pairs of stellar sized black holes The exquisite sensitivity of pulsar signal timing measurements has also been exploited to reveal the presence of a background of gravitational waves most likely arising from the mergers of supermassive black holes thought to be present at the center of most galaxies This book demonstrates how general relativity is central to understanding these and other observations while explaining the role of relativity in modern cosmology An Introduction to General Relativity and Cosmology is an essential entr e to the subject combining full discussions of underlying principles with detailed derivations as well as an accessible treatment of the mathematical foundations of singularity theorems and more advanced topics Combines rigor with

a conversational highly pedagogical approach Emphasizes connections with other areas of physics to sharpen intuition while emphasizing general relativity's unique contributions to modern theoretical physics Presents a novel derivation of the energy flux of gravitational waves Provides detailed and explicit derivations of important results including binary star evolution by gravitational radiation losses Features a detailed treatment of the Hellings Downs formula key to understanding pulsar timing array results for gravitational radiation Provides a reexamination of the equivalence principle for relativistic particles Presents new results on the mathematical solutions of the innermost orbits of the gaseous disks that surround black holes Includes a wealth of exercises Solutions manual available only to instructors

The Summary of Engineering Research University of Illinois at Urbana-Champaign. Office of Engineering Publications, 1992 *Pulsar Timing, General Relativity, and the Internal Structure of Neutron Stars*, 1951 Transactions of the International Astronomical Union International Astronomical Union, 1976 *Literature 1976, Part 2* S. Böhme, Ute Esser, Professor Dr. Walter Fricke, U. Güntzel-Lingner, I. Heinrich, D. Krahn, Dr. Lutz D. Schmädel, G. Zech, 2013-04-18 Astronomy and Astrophysics Abstracts which has appeared in semi annual volumes since 1969 is devoted to the recording summarizing and indexing of astronomical publications throughout the world It is prepared under the auspices of the International Astronomical Union according to a resolution adopted at the 14th General Assembly in 1970 Astronomy and Astrophysics Abstracts aims to present a comprehensive documentation of literature in all fields of astronomy and astrophysics Every effort will be made to ensure that the average time interval between the date of receipt of the original literature and publication of the abstracts will not exceed eight months This time interval is near to that achieved by monthly abstracting journals compared to which our system of accumulating abstracts for about six months offers the advantage of greater convenience for the user Volume 18 contains literature published in 1976 and received before March 1 1977 some older literature which was received late and which is not recorded in earlier volumes is also included

Dynamical Evolution of Star Clusters - Confrontation of Theory and Observations International Astronomical Union. Symposium, International Astronomical Union, 1996-06-30 This volume reviews recent progress in the study of dynamics of star clusters The meeting focused on the enormous progress of both the observation and the theoretical modeling of star clusters New results from the refurbished Hubble Space Telescope HST include the mass function down to the hydrogen burning limits white dwarf sequence and central density profiles of post collapse clusters by star counts On the theoretical side this symposium saw the first direct evidence of gravothermal oscillation through N body simulation which was made possible by GRAPE 4 the dedicated special purpose computer for N body simulation Numerical techniques to combine stellar evolution and dynamical evolution of the cluster were presented The book will be of primary interest to astrophysicists *The Proceedings of the 10th International Conference [on] Recent Progress in Many-Body Theories [held] Seattle, USA, September 10-15, 1999* Raymond F. Bishop, 2001

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