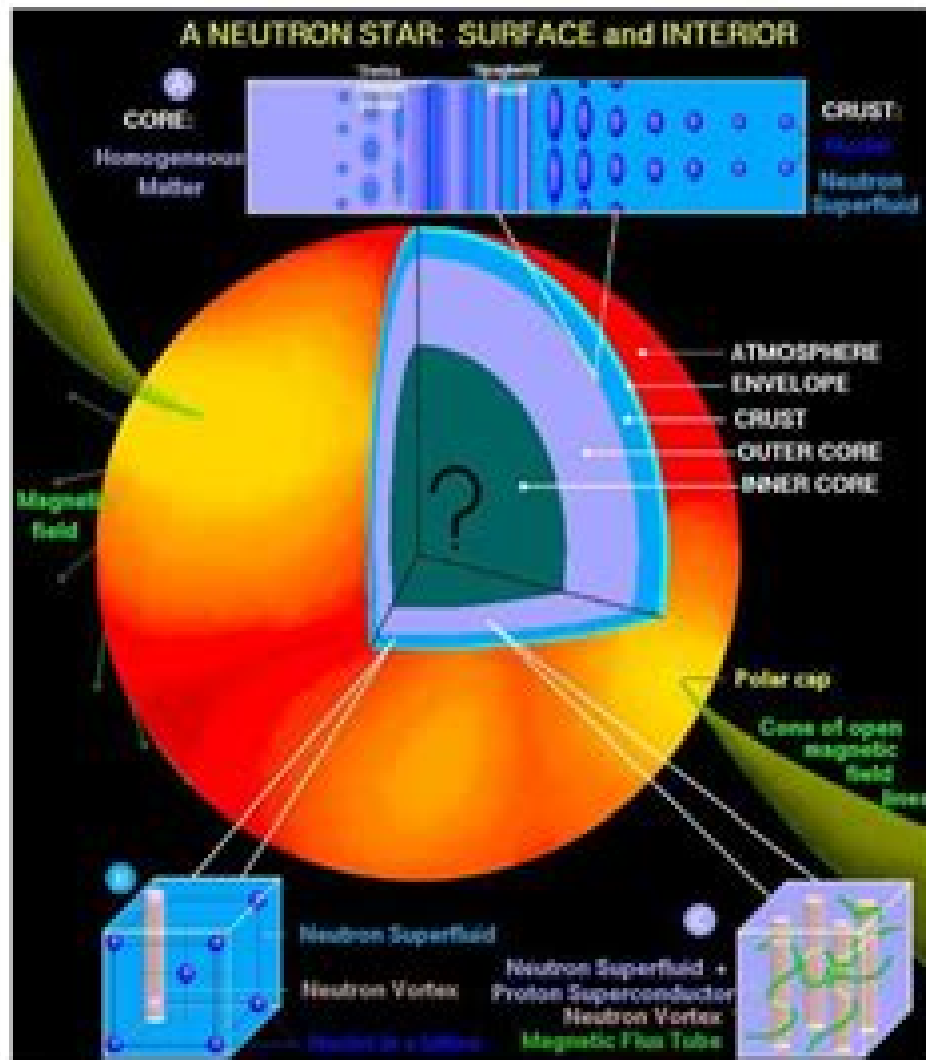


Neutron star interiors

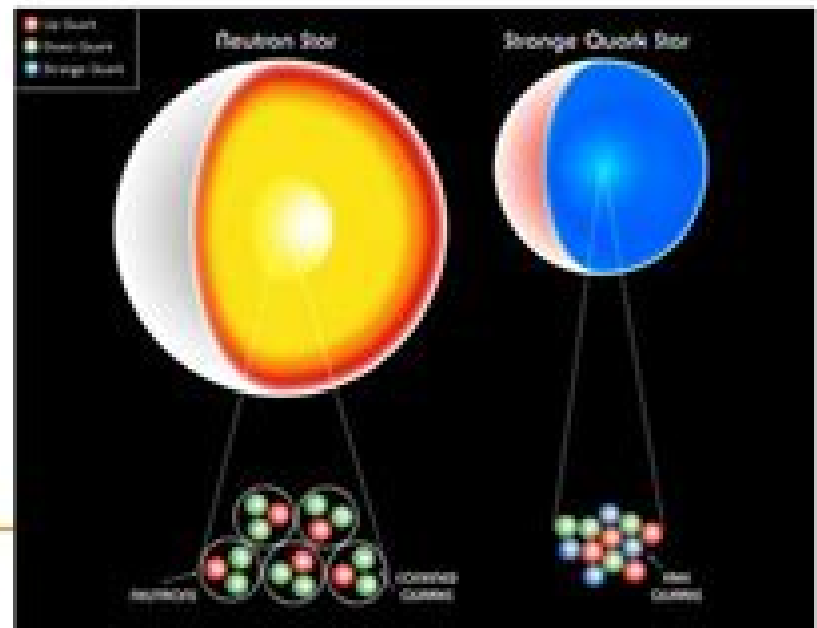


Radius: 10 km

Mass: 1-2 solar

Density: above the nuclear

Strong magnetic fields



Physics Of Neutron Star Interiors

**Cesar Augusto Zen
Vasconcellos, Fridolin Weber**



Physics Of Neutron Star Interiors:

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information for these groups **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 [Astrophysics In The Xxi Century With Compact Stars](#) Cesar Augusto Zen Vasconcellos, Fridolin Weber, 2022-10-25 There are reasons to believe the 21st century will be the best ever for astrophysics the James Webb Space Telescope will extend nearly twenty times the present observational limit of visible light neutrino massiveness opens a new window for exploration on dark energy and dark matter physics and is expected to provide insights into the fate of the Universe the Higgs boson may allow for an understanding of the weakness of gravity gravitational waves produced at the birth of the Universe and by compact stellar objects supermassive black holes black hole neutron star mergers gamma ray bursts white dwarf inspirals have unveiled a new area of astronomy Against this background compact stars the theme of this volume present unique astrophysical laboratories for probing the fabric of space time and the building blocks of matter and their interactions at physical regimes not attainable in terrestrial laboratories [Saturation of the f-mode Instability in Neutron Stars](#) Pantelis Pnigouras, 2018-09-25 This book presents a study of the saturation of unstable f modes fundamental modes due to low order nonlinear mode coupling Since their theoretical prediction in 1934 neutron stars have remained among the most challenging objects in the Universe Gravitational waves emitted by unstable neutron star oscillations can be used to obtain information about their inner structure that is the equation of state of dense nuclear matter After its initial growth phase the instability is expected to saturate due to nonlinear effects The saturation amplitude of the unstable mode determines the detectability of the generated gravitational wave signal but also affects the evolution of the neutron star The study shows that the unstable parent mode resonantly couples to pairs of stable daughter modes which drain the parent's energy and make it saturate via a mechanism called parametric resonance instability Further it calculates the saturation amplitude of the most unstable f mode multipoles throughout their so called instability windows **Pulsar Astronomy** Andrew Lyne, Francis Graham-Smith, Benjamin Stappers, 2022-08-04 After more than half a century since their unexpected discovery and identification as neutron stars the observation and understanding of

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Stellar Remnants S.D. Kawaler,I. Novikov,G. Srinivasan,2006-04-18 Three eminent scientists each well known for the clarity of their writing present for students and researchers what is known about the internal structure origin and evolution of White Dwarfs Neutron Stars and Black Holes all objects at the final stage of stellar evolution They cover fascinating topics such as pulsation of white dwarfs millisecond pulsars or the dynamics around black holes The book is written for graduate students in astrophysics but is also of interest to professional astronomers and physicists

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