

# Core-collapse supernovae and the equation of state

Kernkollaps-Supernovae und die Zustandsgleichung

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Theoretische Astrophysik

# Open Issues In Understanding Core Collapse Supernovae

**Andreas Woehr, Ani Aprahamian**

## **Open Issues In Understanding Core Collapse Supernovae:**

*Open Issues in Core Collapse Supernova Theory* Anthony Mezzacappa, George Michael Fuller, 2005 Efforts to uncover the explosion mechanism of core collapse supernovae and to understand all of their associated phenomena have been ongoing for nearly four decades. Despite this, our theoretical understanding of these cosmic events remains limited. Two and three dimensional modeling of these events is in its infancy. Most of the modeling efforts over the past four decades have by necessity been constrained to spherical symmetry with the first two dimensional, albeit simplified models appearing only during the last decade. Simulations to understand the complex interplay between the turbulent stellar core fluid flow, its magnetic fields, the neutrinos produced in and emanating from the proto neutron star, the stellar core rotation and the strong gravitational fields have yet to be performed. Only subsets of these fundamental ingredients have been included in the models thus far, often with approximation. The purpose of this volume is to identify the outstanding issues that remain in order to come to a complete understanding of these important astrophysical events. As the book focuses on open issues rather than the current state of the art in the field, it will remain relevant for some time.

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[From Lithium to Uranium \(IAU S228\)](#) International Astronomical Union. Symposium, 2005 Proceedings of IAU S228 detailing progress in our knowledge of element production and evolution.

**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 **High Energy Density Laboratory Astrophysics** George A. Kyrala, 2005-12-14 During the past several years research teams around the world have developed astrophysics relevant utilizing high energy density facilities such as intense lasers and z pinches. Research is underway in many areas such as compressible hydrodynamic mixing strong shock phenomena radiation flow radiative shocks and jets complex opacities equations of stat and relativistic plasmas. Beyond this current research and the papers it is producing plans are being made for the application to astrophysics relevant research of the 2 MJ National Ignition Facility NIF laser at Lawrence Livermore National Laboratory the 600 kj Ligne d'Int gration Laser LIL and the 2 MJ Laser M gajoule LMJ in Bordeaux France petawatt range lasers now under construction around the world and current and future Z pinches. The goal of this conference and these proceedings is to continue focusing attention on this emerging research area. The conference brought together different scientists interested in this emerging new field with topics covering Hydrodynamic instabilities in astrophysics Supernovae and supernova remnant evolution Astrophysical shocks blast waves and jets Stellar opacities Radiation and thermal transport Dense plasma atomic physics and EOS X ray photoionized plasmas Ultrastrong magnetic field generation

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Yuan,Xiang-Dong Li,Dong Lai,2008-01-29 Huangshan City China 1 7 July 2007 [Nuclear Physics in the Universe,](#)

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