



Edited by Peter Höflich, Pawan Kumar,  
and J. Craig Wheeler

# **Cosmic Explosions in Three Dimensions**

**Asymmetries in  
Supernovae and  
Gamma-Ray Bursts**

Cambridge Contemporary Astrophysics

# Cosmic Explosions In Three Dimensions

**Peter Höflich, Pawan Kumar, J. Craig  
Wheeler**



## **Cosmic Explosions In Three Dimensions:**

**Cosmic Explosions in Three Dimensions** Peter Höflich, Pawan Kumar, J. Craig Wheeler, 2004-12-16 Supernovae and gamma ray bursts are the strongest explosions in the Universe. Observations show that rather than being symmetrical they are driven by strong jets of energy and other asymmetrical effects. These observations demand theories and computations that challenge the biggest computers. This volume marks the transition to a fresh paradigm in the study of stellar explosions. It highlights the burgeoning era of routine supernova polarimetry and the insights into core collapse and thermonuclear explosions. With chapters by leading scientists, the book summarises the status of a fresh perspective on stellar explosions and should be a valuable resource for graduate students and research scientists. *Cosmic Explosions* Stephen S. Holt, William W. Zhang, 2000 This conference presents invited and contributed papers by international experts devoted to explosive phenomena in cosmic settings as diverse as stellar flares, X-ray bursts, jets, novae, supernovae, hypernovae, and gamma-ray bursts. The conference considered not only the origins of explosive behavior but also information about the host systems that the explosive phenomena might yield. For example, X-ray bursts can be used to determine structural parameters of neutron stars and specific types of supernovae can be used as standard candles to study the deceleration of the Hubble expansion.

A First Course in General Relativity Bernard Schutz, 2022-06-30 This widely used textbook explains general relativity for advanced undergraduates requiring only a minimal background in mathematics. **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, OCo, although the latter will certainly be discussed, OCo it will remain relevant for some time. **Reports on Astronomy**

**2003-2005 (IAU XXVIA)** Oddbjørn Engvold, International Astronomical Union, 2007-05-10 Transactions XXVIA of the International Astronomical Union. IAU provides a comprehensive and authoritative review of what has been achieved in astronomy during the years 2003 to 2005. The insightful and up-to-date reviews are written by the Presidents and Chairpersons of the IAU's different Divisions, Commissions, and Working Groups, and each focuses on a different subject area.

Topics covered in this wide ranging volume include fundamental astronomy the Sun and heliosphere planetary systems sciences stars variable stars interstellar matter the Galactic system galaxies and the Universe optical and infrared techniques radio astronomy space and high energy astrophysics and other IAU activities The reviews are written at a level suitable for colleagues in the same field but they will also be useful for students and researchers wishing to gain an overview beyond their own research area

*Scientific Natural Philosophy* E. E. Escultura, 2011 *Scientific Natural Philosophy* explains the nature and content of scientific natural philosophy particularly qualitative modeling and updates scientific methodology by providing details of the mathematics involved The book presents a total view of our universe from the fractal superstring to its destiny as black holes back in to dark matter and to the timeless and boundless Universe where our universe is a local super super galaxy It stresses the various levels of complementarity between qualitative and quantitative modeling where the former solves and answers questions the latter could not and duality between quantum and macro gravity It highlights new information from the Grand Unification Theory GUT missing in previous philosophical works such as the indestructible generalized nested fractal superstring brain waves as common medium of the brain and gene for their functions Moreover it points to a new technological epoch brought about by the GUT based on utilization of dark matter towards elevating the quality of life This comprehensive book provides an exciting perspective on this fascinating field to the reader

*The Fate of the Most Massive Stars* Roberta M. Humphreys, Krzysztof Zbigniew Stanek, 2005      **Different Manifestations of Neutron Stars** Wynn Ho (C. G.), 2007      *Astrophysical Applications of Spectropolarimetry* Ryan Thomas Chornock, 2009      **World Christian Trends Ad30-ad2200 (hb)** , 2001      *The New Cosmology* Roland E. Allen, Dimitri V. Nanopoulos, Christopher N. Pope, 2004-12-14 The papers in this volume examine the recent revolutionary discoveries in cosmology and astronomy and their theoretical interpretation The observational evidence for an accelerating universe and an earlier decelerating phase is brought up to date with the newest results for the most distant and oldest Type Ia supernovae The data from the WMAP satellite provide for the first time true precision cosmology reliable results for the age of the universe its geometry its evolution over the past 13.7 billion years and many other features including the proportions of ordinary matter dark matter and dark energy Other papers in this volume describe the information obtained with 21st century astronomical techniques including gravitational lensing studies across the electromagnetic spectrum with ground based and NASA observatories and surveys of millions of galaxies The results are interpreted by leading theorists using both accepted and exotic theories including inflation and superstring theory

*Year Book* Carnegie Institution of Washington, 2004      *The Universe Unfolding* Hermann Bondi, Miranda Weston-Smith, 1998 This volume collects the personal reflections of 20 of the world's foremost astronomers These original vibrant and sometimes controversial lectures provide a unique record of trends in astrophysics during the last two decades Accessible to the general reader they cover topics ranging from comets to cosmic rays from astrology to eclipses from the origins of life to the age of the universe As an overview of the most dazzling

accomplishments of modern science these writings offer an unprecedented opportunity to hear Nobel Prize winners and world famous cosmologists tell about their insights and discoveries in their own words     Bulletin Agence Spatiale Européenne European Space Agency,1990     *The British National Bibliography* Arthur James Wells,2005     Forthcoming Books Rose Arny,2004     *The National Geographic Magazine* ,2007     **International Aerospace Abstracts** ,1998  
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