



Supernovae And Gamma Ray Bursts The Greatest Explosions Since The Big Bang

Charles D. Dermer, Govind Menon



Supernovae And Gamma Ray Bursts The Greatest Explosions Since The Big Bang:

Supernovae and Gamma-Ray Bursts Mario Livio, Nino Panagia, Kailash Sahu, 2001-07-02 Since the dramatic discovery that the supernova SN1998bw coincided in position and time with a gamma ray burst the possibility was raised that these two types of spectacular explosions are related This timely volume presents especially written articles by a host of world experts who gathered together for an international conference at the Space Telescope Science Institute This was the first meeting in which the communities of supernova researchers and gamma ray burst researchers were brought together to share ideas The contributions review the mechanisms for these explosive events the possible connections between them and their relevance for cosmology Both observations and theoretical developments are covered This book is an invaluable source of information for both active researchers and graduate students in this exciting area of research **Gravitational**

Radiation, Luminous Black Holes and Gamma-Ray Burst Supernovae Maurice H. P. M. van Putten, 2005-12-15 Black holes and gravitational radiation are two of the most dramatic predictions of general relativity The quest for rotating black holes discovered by Roy P Kerr as exact solutions to the Einstein equations is one of the most exciting challenges facing physicists and astronomers Gravitational Radiation Luminous Black Holes and Gamma Ray Burst Supernovae takes the reader through the theory of gravitational radiation and rotating black holes and the phenomenology of GRB supernovae Topics covered include Kerr black holes and the frame dragging of spacetime luminous black holes compact tori around black holes and black hole spin interactions It concludes with a discussion of prospects for gravitational wave detections of a long duration burst in gravitational waves as a method of choice for identifying Kerr black holes in the Universe This book is ideal for a special topics graduate course on gravitational wave astronomy and as an introduction to those interested in this contemporary development in physics *Gamma-Ray Bursts* Gilbert Vedrenne, Jean-Luc Atteia, 2009-03-20 Since their

discovery was first announced in 1973 gamma ray bursts GRBs have been among the most fascination objects in the universe While the initial mystery has gone the fascination continues sustained by the close connection linking GRBs with some of the most fundamental topics in modern astrophysics and cosmology Both authors have been active in GRB observations for over two decades and have produced an outstanding account on both the history and the perspectives of GRB research

Toward an Understanding of the Progenitors of Gamma-Ray Bursts Joshua S. Bloom, 2002 The various possibilities for the origin progenitors of gamma ray bursts GRBs manifest in differing observable properties Through deep spectroscopic and high resolution imaging observations of some GRB hosts I demonstrate that well localized long duration GRBs are connected with otherwise normal star forming galaxies at moderate redshifts of order unity Using high mass binary stellar population synthesis models I quantify the expected spatial extent around galaxies of coalescing neutron stars one of the leading contenders for GRB progenitors I then test this scenario by examining the offset distribution of GRBs about their apparent hosts making extensive use of ground based optical data from Keck and Palomar and space based imaging from the Hubble

Space Telescope The offset distribution appears to be inconsistent with the coalescing neutron star binary hypothesis and similarly black hole neutron star coalescences instead the distribution is statistically consistent with a population of progenitors that closely traces the ultra violet light of galaxies This is naturally explained by bursts which originate from the collapse of massive stars collapsars This claim is further supported by the unambiguous detections of intermediate time approximately three weeks after the bursts emission bumps which appear substantially more red than the afterglows themselves I claim that these bumps could originate from supernovae that occur at approximately the same time as the associated GRB if true GRB 980326 and GRB 011121 provide strong observational evidence connecting cosmological GRBs to high redshift supernovae and implicate massive stars as the progenitors of at least some long duration GRBs *Astrophysics with Radioactive Isotopes* Roland Diehl, Dieter H. Hartmann, Nikos Prantzos, 2018-10-11 Dealing with astrophysics derived from the radiation emitted by radioactive atomic nuclei this book describes the different methods used to measure cosmic radio isotopes It demonstrates how this astronomical window has contributed to the understanding of the sources and the chemical evolution of cosmic gas Reference materials and explanations are included for students in advanced stages of their education Nuclear reactions in different sites across the universe lead to the production of stable and unstable nuclei Their abundances can be measured through different methods allowing to study the various nuclear processes taking place in cosmic environments Nucleosynthesis is the cosmic formation of new nuclear species starting from hydrogen and helium resulting from the big bang origins Stars create and eject synthesized nuclei during their evolution and explosions Incorporation of the new interstellar composition into next generation stars characterises the compositional chemical evolution of cosmic gas in and between galaxies Radioactive species have unique messages about how this occurs Since the first Edition of this book published in 2011 with the title *Astronomy with Radioactivities* long awaited new direct observations of supernova radioactivity have been made and are now addressed in two updated chapters dealing with supernovae In this second Edition the advances of recent years beyond one dimensional treatments of stellar structure and stellar explosions towards 3 dimensional models have been included and led to significant re writings in Chapters 3 5 The sections on the Solar System origins have been re written to account for new insights into the evolution of giant molecular clouds The chapter on diffuse radioactivities now also includes material measurements of radioactivities in the current solar system and their interpretations for recent nucleosynthesis activity in our Galaxy Significant new results on gamma rays from positron annihilations have been accounted for in that chapter and led to new links with nucleosynthesis sources as well as interstellar transport processes A new chapter now provides a description of interstellar processes often called chemical evolution thus linking the creation of new nuclei to their abundance observations in gas and stars The experimental instrumental chapters on nuclear reaction measurements on gamma ray telescopes and pre solar grain laboratories have been updated Moreover new windows of astronomy that have been opened up in recent years have been included in the

discussions of the multi messenger approach that broadens the basis for astrophysical insights *The Greatest Explosions Since the Big Bang* Mario Livio, Nino Panagia, Kailash Sahu, 2000 Supernovae and Gamma-Ray Bursters Kurt

Weiler, 2008-01-11 Since the dawn of mankind observers of the sky have wondered at the sudden appearance of new stars on the seemingly unchanging heavens and for at least 2000 years have recorded these phenomena in their annals and archives Even in more modern times since the discovery of SN1885A in S Andromeda which gured in the important island universe discussions of the 1920 s the puzzle of supernovae SNe has played an important role in astrophysics Only with the seminal work of Fritz Zwicky and Walter Baade in the 1930 s did we begin to understand the di erences between novae and SNe and the importance of SNe as the fonts of energy for the interstellar medium and as drivers of chemical evolution in galaxies As recently as the 1940 s and 1950 s the early days of radio astronomy were heavily in uenced by the familiar names of Cassiopeia A and Taurus A two young supernova remnants and two Nobel prizes have been awarded for discovery and study of a related phenomenon pulsars In spite of the great age of the study of SNe since at least the Chinese records of SN185 and probably earlier the eld is in fact very young having only attracted a large devoted following since the spectacular Type II SN1987A in the Large Magellanic Cloud the rst naked eye SN in more than 400 years *Stellar Explosions* Jordi

Jose, 2016-01-05 Stars are the main factories of element production in the universe through a suite of complex and intertwined physical processes Such stellar alchemy is driven by multiple nuclear interactions that through eons have transformed the pristine metal poor ashes leftover by the Big Bang into a cosmos with 100 distinct chemical species The products of **High Energy Radiation from Black Holes** Charles D. Dermer, Govind Menon, 2009-09-21 Bright gamma ray flares observed from sources far beyond our Milky Way Galaxy are best explained if enormous amounts of energy are liberated by black holes The highest energy particles in nature the ultra high energy cosmic rays cannot be confined by the Milky Way s magnetic field and must originate from sources outside our Galaxy Understanding these energetic radiations requires an extensive theoretical framework involving the radiation physics and strong field gravity of black holes In *High Energy Radiation from Black Holes* Charles Dermer and Govind Menon present a systematic exposition of black hole astrophysics and general relativity in order to understand how gamma rays cosmic rays and neutrinos are produced by black holes Beginning with Einstein s special and general theories of relativity the authors give a detailed mathematical description of fundamental astrophysical radiation processes including Compton scattering of electrons and photons synchrotron radiation of particles in magnetic fields photohadronic interactions of cosmic rays with photons gamma ray attenuation Fermi acceleration and the Blandford Znajek mechanism for energy extraction from rotating black holes The book provides a basis for graduate students and researchers in the field to interpret the latest results from high energy observatories and helps resolve whether energy released by rotating black holes powers the highest energy radiations in nature The wide range of detail will make *High Energy Radiation from Black Holes* a standard reference for black hole research **White Dwarfs:**

Cosmological and Galactic Probes E. Sion, S. Vennes, H. Shipman, 2005-08-25 The emphasis on white dwarf stars and cosmology arises from the most recent advances in cosmological and galactic structure research in which white dwarf stars are playing a very prominent role Examples are Type Ia supernovae i e white dwarf supernovae the origin and evolution of the universe the age of the galactic disk cosmochronology using white dwarfs in globular clusters and galactic clusters and the physics of accretion onto compact very dense stars As an assisting guide to the reader we have included by invitation comprehensive review articles in each of the four major areas of the book white dwarf supernovae cosmology accretion physics and galactic structure The reviews include introductory material that they build upon The book is suitable and most useful to advanced undergraduates graduate students and scientific professionals e g astronomers astrophysicists cosmologists physicists

Cosmic Evolution Roger Ferlet, Martin Lemoine, Elisabeth Vangioni-Flam, 2001-09-25 This is the proceedings of an international conference on the evolution of matter in the Universe with emphasis on the following topics big bang nucleosynthesis cosmic ray nucleosynthesis stellar nucleosynthesis galactic chemical and dynamical evolution and evolution with redshift and cosmic chemical evolution in general

White Dwarfs Domitilla de Martino, Roberto Silvotti, Jan-Erik Solheim, Romualdas Kalytis, 2012-12-06 Proceedings of the NATO Advanced Research Workshop held in Naples Italy 24-28 June 2002

Eleventh Marcel Grossmann Meeting, The: On Recent Developments In Theoretical And Experimental General Relativity, Gravitation And Relativistic Field Theories (In 3 Volumes) - Proceedings Of The Mg11 Meeting On General Relativity Hagen Kleinert, Robert T Jantzen, Remo Ruffini, 2008-09-04 The Marcel Grossmann Meetings are three yearly forums that meet to discuss recent advances in gravitation general relativity and relativistic field theories emphasizing their mathematical foundations physical predictions and experimental tests These meetings aim to facilitate the exchange of ideas among scientists to deepen our understanding of space time structures and to review the status of ongoing experiments and observations testing Einstein's theory of gravitation either from ground or space based experiments Since the first meeting in 1975 in Trieste Italy which was established by Remo Ruffini and Abdus Salam the range of topics presented at these meetings has gradually widened to accommodate issues of major scientific interest and attendance has grown to attract more than 900 participants from over 80 countries This proceedings volume of the eleventh meeting in the series held in Berlin in 2006 highlights and records the developments and applications of Einstein's theory in diverse areas ranging from fundamental field theories to particle physics astrophysics and cosmology made possible by unprecedented technological developments in experimental and observational techniques from space ground and underground observatories It provides a broad sampling of the current work in the field especially relativistic astrophysics including many reviews by leading figures in the research community

Symmetry & Modern Physics Alfred S. Goldhaber, 2003 C N Yang one of the greatest physicists of the 20th Century was awarded the Nobel Prize in 1957 jointly with T D Lee for their investigation of the relationship parity symmetry between left and right handed states leading to a discovery that astounded the world of physics

the nonconservation of parity by elementary particles and their reactions With R L Mills he created the concept of non abelian gauge theories the foundation of the modern description of elementary particles and forces Professor Yang has worked on a wide range of subjects in physics but his abiding interests have been symmetry principles particle physics and statistical mechanics In 1999 a symposium was held at the State University of New York at Stony Brook to mark the retirement of C N Yang as Einstein Professor and Director of the Institute for Theoretical Physics and to celebrate his many achievements A noteworthy selection of the papers presented at the symposium appears in this invaluable volume in honor of Professor Yang

Symmetry And Modern Physics: Yang Retirement Symposium Alfred Scharff Goldhaber, R Shrock, John Smith, George Sterman, Peter Van Nieuwenhuizen, William Weisberger, 2003-09-11 C N Yang one of the greatest physicists of the 20th Century was awarded the Nobel Prize in 1957 jointly with T D Lee for their investigation of the relationship parity symmetry between left and right handed states leading to a discovery that astounded the world of physics the nonconservation of parity by elementary particles and their reactions With R L Mills he created the concept of non abelian gauge theories the foundation of the modern description of elementary particles and forces Professor Yang has worked on a wide range of subjects in physics but his abiding interests have been symmetry principles particle physics and statistical mechanics In 1999 a symposium was held at the State University of New York at Stony Brook to mark the retirement of C N Yang as Einstein Professor and Director of the Institute for Theoretical Physics and to celebrate his many achievements A noteworthy selection of the papers presented at the symposium appears in this invaluable volume in honor of Professor Yang

The Ninth Marcel Grossmann Meeting Robert T. Jantzen, Remo Ruffini, V. G. Gurzadyan, 2002 *The Chemical Evolution of the Galaxy* Francesca Matteucci, 2012-12-06 This book is based partly on a lecture course given at the University of Trieste but mostly on my own research experience in the field of galactic chemical evolution The subject of galactic chemical evolution was started and developed by Beatrice Tinsley in the seventies and now is a flourishing subject This book is dedicated to the chemical evolution of our Galaxy and aims at giving an up to date review of what we have learned since Tinsley's pioneering efforts At the time of writing in fact books of this kind were not available with the exception of the excellent book by Bernard Pagel on Nucleosynthesis and Chemical Evolution of Galaxies Cambridge University Press 1997 and the subject of galactic chemical evolution has appeared only as short chapters in books devoted to other subjects Therefore I felt that a book of this kind could be useful The book summarizes the observational facts which allow us to reconstruct the chemical history of our Galaxy in particular the abundances in stars and in interstellar medium in the last decade a great deal of observational work mostly abundance determinations in stars in the solar vicinity has shed light on the production and distribution of chemical elements Even more recently more abundance data have accumulated for external galaxies at both low and high redshift thus providing precious information on the chemical evolution of different types of galaxies and on the early stages of galaxy evolution

The Influence of Binaries on Stellar Population Studies D.

Vanbeveren,2013-06-29 A star in a binary may interact with its companion and this complicates significantly its structure and evolution During several decades in the past many astronomers hoped that the number of binaries is small This is sometimes reflected in theoretical studies dealing with large populations of stars where it is ASSUMED without any justification that binaries do not alter the results The number of confirmed binaries increases as observations improve and we there fore thought that the time was right to organize a meeting where the main topic would be the effect of binaries on stellar population studies The SOC proposed a program with extended general overviews and highlights of non evolved and evolved binaries with low mass intermediate mass and massive components the link with supernova explosions pulsars and gamma ray bursts the effect of binaries on the chemical evolution of galaxies Specialists in the different research fields were invited and have given very interesting and highly educational talks As can be noticed by reading the proceedings the authors have put a lot of effort in preparing their contribution

Binary Stars: Selected Topics on Observations and Physical Processes F. C. Lazaro,M.J. Arevalo,2008-01-11 More than half of all stars in the universe formed and evolved as binary systems and their study is essential for understanding stellar and galactic evolution The six lectures in this book give both a readable introduction and an up to date review of nearly all aspects of research into binary stars including the range from common binaries to more exotic systems composed of white dwarfs neutron stars and black holes

Ninth Marcel Grossmann Meeting, The: On Recent Developments In Theoretical And Experimental General Relativity, Gravitation & Relativistic Field Theories (In 3 Volumes) - Procs Of The Mgix Mm Meeting Vahe G Gurzadyan,Robert T Jantzen,Remo Ruffini,2002-12-12 In 1975 the Marcel Grossmann Meetings were established by Remo Ruffini and Abdus Salam to provide a forum for discussion of recent advances in gravitation general relativity and relativistic field theories In these meetings which are held once every three years every aspect of research is emphasized mathematical foundations physical predictions and numerical and experimental investigations The major objective of these meetings is to facilitate exchange among scientists so as to deepen our understanding of the structure of space time and to review the status of both the ground based and the space based experiments aimed at testing the theory of gravitation The Marcel Grossmann Meetings have grown under the guidance of an International Organizing Committee and a large International Coordinating Committee The first two meetings MG1 and MG2 were held in Trieste 1975 1979 A most memorable MG3 1982 was held in Shanghai and represented the first truly international scientific meeting in China after the so called Cultural Revolution Three years later MG4 was held in Rome 1985 It was at MG4 that astroparticle physics was born MGIXMM was organized by the International Organizing Committee composed of D Blair Y Choquet Bruhat D Christodoulou T Damour J Ehlers F Everitt Fang Li Zhi S Hawking Y Ne eman R Ruffini chair H Sato R Sunyaev and S Weinberg Essential to the organization was an International Coordinating Committee of 135 members from scientific institutions of 54 countries MGIXMM was attended by 997 scientists of 69 nationalities It took place on 2 8 July 2000 at the University of Rome Italy The scientific programs

included 60 plenary and review talks as well as talks in 88 parallel sessions. The three volumes of the proceedings of MGIXMM present a rather authoritative view of relativistic astrophysics which is becoming one of the priorities in scientific endeavour. The papers appearing in these volumes cover all aspects of gravitation from mathematical issues to recent observations and experiments. Their intention is to give a complete picture of our current understanding of gravitational theory at the turn of the millennium. The Marcel Grossmann Individual Awards for this meeting were presented to Cecille and Bryce DeWitt, Riccardo Giacconi and Roger Penrose, while the Institutional Award went to the Solvay Institute, accepted on behalf of the Institute by Jacques Solvay and Ilya Prigogine. The acceptance speeches are also included in the proceedings.

Supernovae And Gamma Ray Bursts The Greatest Explosions Since The Big Bang Book Review: Unveiling the Power of Words

In a world driven by information and connectivity, the power of words has become more evident than ever. They have the capability to inspire, provoke, and ignite change. Such may be the essence of the book **Supernovae And Gamma Ray Bursts The Greatest Explosions Since The Big Bang**, a literary masterpiece that delves deep to the significance of words and their impact on our lives. Written by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we will explore the book's key themes, examine its writing style, and analyze its overall effect on readers.

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