

Supernovae

Supernova Remnants

Gamma-Ray Bursts



Supernovae And Supernova Remnants

RD Boyd



Supernovae And Supernova Remnants:

Supernovae and Supernova Remnants C.B. Cosmovici, Emilia D'Anna, Alfredo Borghesi, 1974-04-30 Proceedings of the International Conference on Supernovae Lecce Italy May 7 11 1973 *Neutron Stars, Supernovae and Supernova Remnants* O. H. Guseinov, Efe Yazgan, Askin Ankay, 2007 In the 1930s scientists discovered that the universe is expanding and that it is quite old The observation of hydrogen lines in the spectrum of the sun helped Niels Bohr construct his atomic model in 1912 and understand the optical spectra of atoms This era marked the transition of astronomy into astrophysics With the rapid technological progress scientists were able to study the universe in different ways that enabled them to observe what could not be observed using ordinary telescopes Technology enabled scientists to see the universe in x rays gamma rays radio waves and even look inside stars with neutrinos One of the most important results of these developments the observation of very high energy particles from cosmic distances led to a complete new branch of physics namely high energy physics and provided a valuable tool to understand the very high energy processes going on in the universe such as in shock fronts of supernova remnants In the 1960s very important discoveries in astrophysics like the microwave background radiation from the Big Bang quasars X ray binaries pulsars and cosmic X ray sources followed A significant interest in astrophysics prevailed and many physicists began to work on these new objects and processes Among many great physicists Yakov B Zeldovich and Igor D Novikov are worth noting especially because of their efforts which accelerated the theoretical and phenomenological researches in all of these branches of astrophysics Astrophysics began to push the boundaries of physics and our world view Astrophysical results were rewarded with Nobel prizes Three of these Nobel prizes 1974 1993 2002 were given to works on neutron stars This book is mainly devoted to neutron stars and to objects related to them **Supernovae and Supernova Remnants** International Astronomical Union. Colloquium, 1996-03-21 A comprehensive and timely review of studies of supernovae and supernova remnants *Physics and Evolution of Supernova Remnants* Jacco Vink, 2020-11-10 Written by a leading expert this monograph presents recent developments on supernova remnants with the inclusion of results from various satellites and ground based instruments The book details the physics and evolution of supernova remnants as well as provides an up to date account of recent multiwavelength results Supernova remnants provide vital clues about the actual supernova explosions from X ray spectroscopy of the supernova material or from the imprints the progenitors had on the ambient medium supernova remnants are interacting with all of which the author discusses in great detail The way in which supernova remnants are classified is reviewed and explained early on A chapter is devoted to the related topic of pulsar wind nebulae and neutron stars associated with supernova remnants The book also includes an extended part on radiative processes collisionless shock physics and cosmic ray acceleration making this book applicable to a wide variety of astronomical sub disciplines With its coverage of fundamental physics and careful review of the state of the field the book serves as both textbook for advanced students and as reference for researchers in the field **Supernovae and Supernova**

Remnants Claude R. Canizares, Massachusetts Institute of Technology. Center for Space Research, 1984 *Supernovae* R. A. Syun'yaev, S. I. Blinnikov, 1988 Contains two reviews of astrophysical interest Supernovae and Supernova Remnants and Observations of Cosmic Gamma Ray Bursts NW Annotation copyrighted by Book News Inc Portland OR Handbook of Supernovae Athem W. Alsabti, Paul Murdin, 2017-12-08 This reference work gathers all of the latest research in the supernova field areas to create a definitive source book on supernovae their remnants and related topics It includes each distinct subdiscipline including stellar types progenitors stellar evolution nucleosynthesis of elements supernova types neutron stars and pulsars black holes swept up interstellar matter cosmic rays neutrinos from supernovae supernova observations in different wavelengths interstellar molecules and dust While there is a great deal of primary and specialist literature on supernovae with a great many scientific groups around the world focusing on the phenomenon and related subdisciplines nothing else presents an overall survey This handbook closes that gap at last As a comprehensive and balanced collection that presents the current state of knowledge in the broad field of supernovae this is to be used as a basis for further work and study by graduate students astronomers and astrophysicists working in close related disciplines and established groups Editorial Board EDITORS IN CHIEF Athem W Alsabti University College London Observatory University College London London UK Sections Supernovae and Supernova Remnants Supernovae and the Environment of the Solar System Paul Murdin Institute of Astronomy University of Cambridge Cambridge UK Section Supernovae and Supernova Remnants SECTION EDITORS David Arnett Steward Observatory University of Arizona Tucson AZ USA Section Nucleosynthesis in Supernovae Phil Charles University of Southampton School of Physics and Astronomy Southampton UK Section Stellar Remnants Neutron Stars and Black Holes Robert A Fesen Department of Physics and Astronomy Dartmouth College Hanover NH USA Section Evolution of Supernovae and the Interstellar Medium David A Green Cavendish Laboratory University of Cambridge Cambridge UK Section Historical Supernovae Mario Hamuy Astronomy Department University of Chile Santiago Chile Millennium Institute of Astrophysics Santiago Chile Section Cosmology from Supernovae Peter Hoeflich Department of Physics Florida State University Tallahassee FL USA Section Explosion Mechanisms of Supernovae Kenichi Nomoto Kavli Institute for the Physics and Mathematics of the Universe WPI The University of Tokyo Kashiwa Chiba Japan Section Supernovae and Stellar Evolution Stephen Smart Astrophysics Research Centre Queen's University Belfast Northern Ireland UK Section Light Curves and Spectra of Supernovae Mark Sullivan School of Physics and Astronomy University of Southampton Highfield Southampton UK Section Types of Supernovae Friedrich Karl Thielemann Department of Physics University of Basel Basel Switzerland Sections Neutrinos Gravitational Waves and Cosmic Rays Nucleosynthesis in Supernovae Chengmin M Zhang National Astronomical Observatories Chinese Academy of Sciences Beijing China Key Laboratory of Radio Astronomy CAS Beijing China School of Physical Science University of Chinese Academy of Sciences Beijing China Section Stellar Remnants Neutron Stars and Black Holes *Supernovae and Supernova Remnants* Centre E

Majorana . Advanced School of Astronomy, **Statistics of Supernovae** Gustav A. Tammann,1973 **Historical Supernovae and Their Remnants** Francis Richard Stephenson,2002 Annotation This book reviews both the historical observations of supernovae SN seen in our Galaxy over the last two millennia and recorded in East Asia China Japan and Korea Europe and the Arabic dominions together with modern observations of the remnants of these supernovae Introductory chapters provide background information about the historical observations and our modern understanding of supernovae and novae and of supernova remnants SNRs and pulsars Subsequent chapters discuss the historical observations of the well defined historical SN and modern observations of their remnants These chapters cover Kepler s SN of AD1604 Tycho s SNe of AD1572 the SN of AD1181 the SN of AD1054 which produced the well known Crab Nebula and the especially bright SN of AD1006 One chapter discusses the young SNR Cassiopeia A and the proposed sighting of its SN in AD1680 by Flamsteed Earlier but less certain supernovae of the preceding millennium chronicled in China are also discussed along with their possible remnants Other less certain observations of historical SN and the future potential for additional historical observations are briefly discussed This book also includes as an appendix an up to date catalogue of over two hundred known Galactic SNRs

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