



# Type I Supernovae

**William J. Kaufmann, Neil F. Comins**



## **Type I Supernovae:**

*Galactic Astronomy* James Binney, Michael Merrifield, 2021-07-13 This is the definitive treatment of the phenomenology of galaxies a clear and comprehensive volume that takes full account of the extraordinary recent advances in the field The book supersedes the classic text *Galactic Astronomy* that James Binney wrote with Dimitri Mihalas and complements *Galactic Dynamics* by Binney and Scott Tremaine It will be invaluable to researchers and is accessible to any student who has a background in undergraduate physics The book draws on observations both of our own galaxy the Milky Way and of external galaxies The two sources are complementary since the former tends to be highly detailed but difficult to interpret while the latter is typically poorer in quality but conceptually simpler to understand Binney and Merrifield introduce all astronomical concepts necessary to understand the properties of galaxies including coordinate systems magnitudes and colors the phenomenology of stars the theory of stellar and chemical evolution and the measurement of astronomical distances The book's core covers the phenomenology of external galaxies star clusters in the Milky Way the interstellar media of external galaxies gas in the Milky Way the structure and kinematics of the stellar components of the Milky Way and the kinematics of external galaxies Throughout the book emphasizes the observational basis for current understanding of galactic astronomy with references to the original literature Offering both new information and a comprehensive view of its subject it will be an indispensable source for professionals as well as for graduate students and advanced undergraduates *13th Texas Symposium on Relativistic Astrophysics* Melville Paul Ulmer, 1987 **The Interaction of Supernovae and Pulsars with the Circumstellar Environment** Robert Thomas Emmering, 1988 Literature 1985, Part 2 S. Böhme, U. Esser, W. Fricke, H. Hefele, I. Heinrich, W. Hofmann, D. Krahn, V. R. Matas, L. D. Schmädel, G. Zech, 2013-12-14 *Astronomy and Astrophysics Abstracts* aims to present a comprehensive documentation of the literature concerning all aspects of astronomy astrophysics and their border fields It is devoted to the recording summarizing and indexing of the relevant publications throughout the world *Astronomy and Astrophysics Abstracts* is prepared by a special department of the Astronomisches Rechen Institut under the auspices of the International Astronomical Union Volume 40 records literature published in 1985 and received before February 15 1986 Some older documents which we received late and which are not surveyed in earlier volumes are included too We acknowledge with thanks contributions of our colleagues all over the world We also express our gratitude to all organizations observatories and publishers which provide us with complimentary copies of their publications Starting with Volume 33 all the recording correction and data processing work was done by means of computers The recording was done by our technical staff members Ms Helga Ballmann Ms Mona El Choura t Ms Monika Kohl Ms Sylvia Matyssek Ms Karirr Burkhardt Ms Susanne Schlichtelburg Mr Martin Schlichtelburg and Mr Stefan Wagner supported our task by careful proof reading It is a pleasure to thank them all for their encouragement Literature 1987, Part 1 S. Böhme, U. Esser, H. Hefele, I. Heinrich, W. Hofmann, D. Krahn, V. R. Matas, L. D. Schmädel, G. Zech, 2013-11-11 *Astronomy and*

Astrophysics Abstracts aims to present a comprehensive documentation of the literature concerning all aspects of astronomy astrophysics and their border fields It is devoted to the recording summarizing and indexing of the relevant publications throughout the world Astronomy and Astrophysics Abstracts is prepared by a special department of the Astronomisches Rechen Institut under the auspices of the International Astronomical Union Volume 43 records literature published in 1987 and received before August 15 1987 Some older documents which we received late and which are not surveyed in earlier volumes are included too We acknowledge with thanks contributions of our colleagues all over the world We also express our gratitude to all organizations observatories and publishers which provide us with complimentary copies of their publications Starting with Volume 33 all the recording correction and data processing work was done by means of computers The recording was done by our technical staff members Ms Helga Ballmann Ms Beate Gobel Ms Monika Kohl Ms Sylvia Matyssek Ms Doris Schmitz Braunstein Ms Utta Barbara Stegemann Mr Jochen Heidt and Mr Kristopher Polzine supported our task by careful proof reading It is a pleasure to thank them all for their encouragement Heidelberg October 1987 The Editors

Contents Introduction 1 Concordance Relation PHYS AAA 3 Abbreviations 5 Periodicals Proceedings Books Activities 001 Periodicals 10 002 Bibliographical Publications Documentation Catalogues Data Bases 50 003 Books Enrichment study of hot intra-cluster gas through X-ray spectroscopy Jelle de Plaa,2007 Clusters of galaxies are the biggest objects known in the universe They consist of large groups of hundreds of galaxies that each contain hundreds of billions of stars The member galaxies are embedded in a cloud of hot X ray emitting gas that spans over millions of light years During the formation of clusters a large fraction of the chemical elements that supernova explosions produce is ejected from the galaxies into the surrounding hot gas In this thesis Jelle de Plaa presents the results of his study of this chemical enrichment of the hot gas He used observations performed by ESA s XMM Newton X ray observatory to measure the abundances of several elements and compared them to supernova model yields INIS Atomindex ,1987 Type I Supernovae J. Craig Wheeler,1980

**Paths to Dark Energy** Gene Byrd,Arthur D. Chernin,Pekka Teerikorpi,Mauri Valtonen,2012-07-30 This work provides the current theory and observations behind the cosmological phenomenon of dark energy The approach is comprehensive with rigorous mathematical theory and relevant astronomical observations discussed in context The book treats the background and history starting with the new found importance of Einstein s cosmological constant proposed long ago in dark energy formulation as well as the frontiers of dark energy The authors do not presuppose advanced knowledge of astronomy and basic mathematical concepts used in modern cosmology are presented in a simple but rigorous way All this makes the book useful for both astronomers and physicists and also for university students of physical sciences

**Advanced Course of the Swiss Society of Astronomy and Astrophysics** ,1977 *High Energy Particle Acceleration and Turbulent Magnetic Field Amplification in Shell Type Supernova Remnants* Jonathan Wilmore Keohane,1998

Government Reports Announcements & Index ,1988 **Eighth Texas Symposium on Relativistic Astrophysics**

Michael D. Papagiannis,1977      **Discovering the Universe** William J. Kaufmann,Neil F. Comins,2008-12-26 Discovering the Universe From the Stars to the Planets engages students with an inquiry based exploration of the universe and the scientific process Developed with a big picture approach the text first explains how the stars the galaxies and the entire universe formed and then discusses planets and other components of our solar system Students follow this natural conceptual progression within a proven learning method designed to address misconceptions and build a deep understanding of science and the world around us      **Type Ia Supernovae** Wolfgang Eitel Kerzendorf,2011 Supernovae are the brightest explosions in the universe Supernovae in our Galaxy rare and happening only every few centuries have probably been observed since the beginnings of mankind At first they were interpreted as religious omens but in the last half millennium they have increasingly been used to study the cosmos and our place in it Tycho Brahe deduced from his observations of the famous supernova in 1572 that the stars in contrast to the widely believe Aristotelian doctrine were not immutable More than 400 years after Tycho made his paradigm changing discovery using SN 1572 and some 60 years after supernovae had been identified as distant dying stars two teams changed the view of the world again using supernovae The found that the Universe was accelerating in its expansion a conclusion that could most easily be explained if more than 70% of the Universe was some previously un identified form of matter now often referred to as Dark Energy Beyond their prominent role as tools to gauge our place in the Universe supernovae themselves have been studied well over the past 75 years We now know that there are two main physical causes of these cataclysmic events One of these channels is the collapse of the core of a massive star The observationally motivated classes Type II Type Ib and Type Ic have been attributed to these events This thesis however is dedicated to the second group of supernovae the thermonuclear explosions of degenerate carbon and oxygen rich material and lacking hydrogen called Type Ia supernovae SNe Ia White dwarf stars are formed at the end of a typical star s life when nuclear burning ceases in the core the outer envelope is ejected with the degenerate core typically cooling for eternity Theory predicts that such stars will self ignite when close to 1.38 Msun called the Chandrasekhar Mass Most stars however leave white dwarfs with 0.6 Msun and no star leaves a remnant as heavy as 1.38 Msun which suggests that they somehow need to acquire mass if they are to explode as SN Ia Currently there are two major scenarios for this mass acquisition In the favoured single degenerate scenario the white dwarf accretes matter from a companion star which is much younger in its evolutionary state The less favoured double degenerate scenario sees the merger of two white dwarfs with a total combined mass of more than 1.38 Msun This thesis has tried to answer the question about the mass acquisition in two ways First the single degenerate scenario predicts a surviving companion post explosion We undertook an observational campaign to find this companion in two ancient supernovae SN 1572 and SN 1006 Secondly we have extended an existing code to extract the elemental and energy yields of SNe Ia spectra by automating spectra fitting to specific SNe Ia This type of analysis in turn help diagnose to which of the two major progenitor scenarios is right      **Physics Briefs** ,1994

Supernova Or Graur,2022-02-08 A concise illustrated introduction to the history and physics of supernovae the brilliant explosions of stars with striking color illustrations Supernovae are the explosions of stars They are some of the most energetic phenomena in the Universe rivaling the combined light of billions of stars Supernovae have been studied for centuries and they have also made appearances in popular culture a glimpse of a supernova in a painting provides Sherlock Holmes with a crucial clue for example In this volume in the MIT Press Essential Knowledge series astrophysicist Or Graur offers a concise and accessible introduction to these awe inspiring astronomical phenomena Graur explains that a deep observational understanding of supernovae why and how they shine and how their brightness changes over time allows us to use them as tools for experiments in astrophysics and physics A certain type of supernova for example brightens and fades in such a predictable manner that we can measure the distances to their host galaxies We owe our existence to supernovae they give us iron for our blood and calcium for our bones But supernovae may also have caused a mass extinction event on Earth 2 6 million years ago Graur shows how observations of supernovae played a role in the transformation of astronomy from astrology to astrophysics surveys the tools used to study supernovae today and describes the lives and deaths of stars and the supernova remnants neutron stars and black holes they leave behind Illustrations in both color and black and white many from Graur s own Hubble Space Telescope data make this account of supernovae particularly vivid

**Interacting Binaries** Luciano Burderi,2005-11-02 This conference examines the progress in the field of interacting binaries discussing a number of relevant astrophysical problems regarding the interaction between stars in binary systems such as the physics of neutron stars and black holes that accrete matter from their companion stars and the study of the end points of stellar evolution like supernovae and gamma ray bursts This proceedings provides an updated overview of both observations and theory Topics include compact binaries in globular clusters millisecond binary pulsars supernovae from massive binary systems and GRBs accretion on black holes and microquasars accretion on white dwarfs and novae rapid variability and secular evolution of LMX Ray binaries supernovae type Ia as well as secular evolution of high mass x ray binaries

Supernovae as Distance Indicators Norbert Bartel,1985-03

**Energy Research Abstracts** ,1977 Semiannual with semiannual and annual indexes References to all scientific and technical literature coming from DOE its laboratories energy centers and contractors Includes all works deriving from DOE other related government sponsored information and foreign nonnuclear information Arranged under 39 categories e g Biomedical sciences basic studies Biomedical sciences applied studies Health and safety and Fusion energy Entry gives bibliographical information and abstract Corporate author subject report number indexes

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