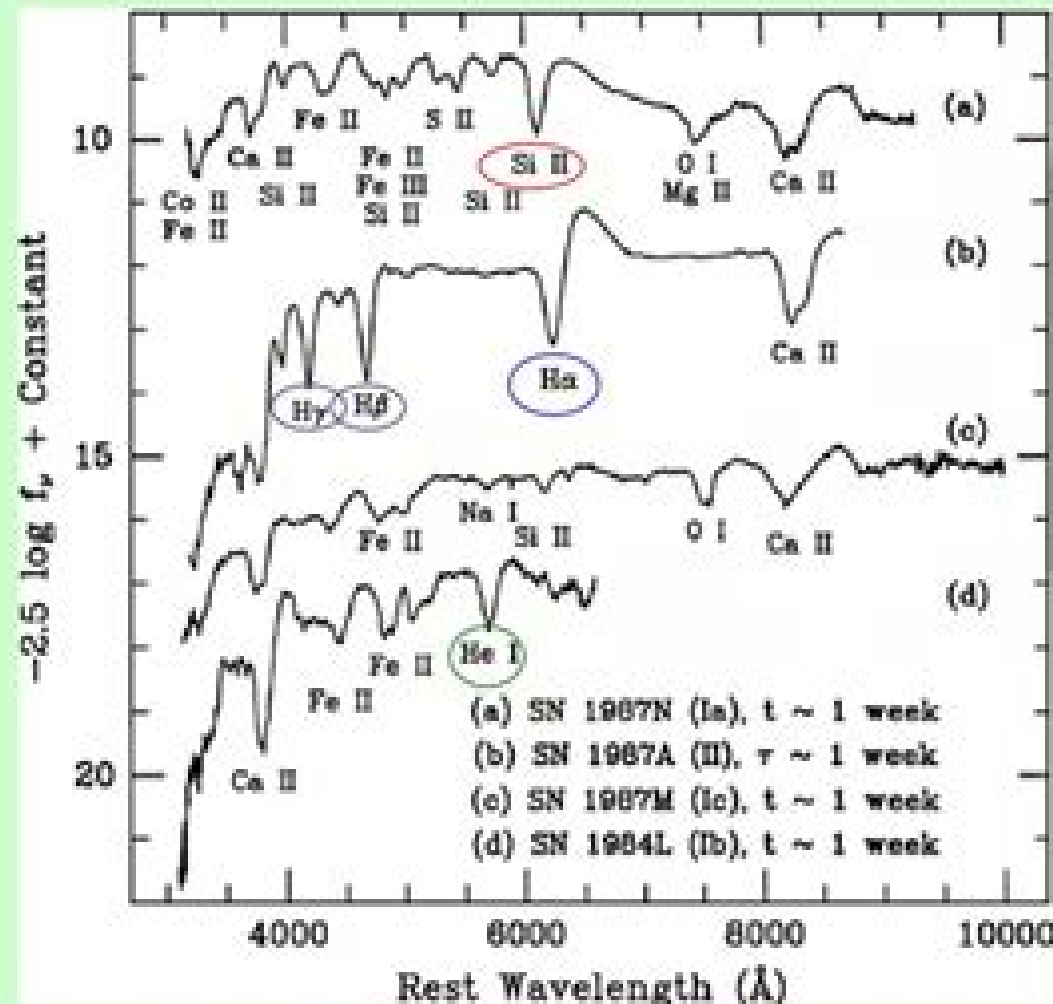


Spectra of Supernovae: the photospheric phase



SN Ia

SN II

SN Ic

SN Ib

Supernovae Spectra Proc

Jiyuan Zhang



Supernovae Spectra Proc:

Supernovae, Neutron Star Physics and Nucleosynthesis Debades Bandyopadhyay, Kamales Kar, 2022-03-28 This book deals with the interdisciplinary areas of nuclear physics supernovae and neutron star physics It addresses the physics and astrophysics of the spectacular supernova explosions starting with the collapse of massive stars and ending with the birth of neutron stars or black holes Recent progress in the understanding of core collapse supernova CCSN and observational aspects of future detections of neutrinos from CCSN explosions are discussed The other main focus in this text is the novel phases of dense nuclear matter its compositions and equation of state EoS from low to very high baryon density relevant to supernovae and neutron stars The multi messenger astrophysics of binary neutron star merger GW170817 and its relation to EoS through tidal deformability are also presented in detail The synthesis of elements heavier than iron in the supernova and neutron star environment by the rapid r process are treated here with special emphasis on the nucleosynthesis in the ejected material from GW170817 This monograph is written for graduate students and researchers in the field of nuclear astrophysics

Supernovae Stanford E. Woosley, 2012-12-06 Supernova explosions are not only important to the ecology of the universe seeding it among other things with the heavy elements necessary for the existence of life but they are also a natural laboratory in which a host of unique physical phenomena occur While still far from a complete understanding scientists have made great advances during the last twenty five years in understanding the nature and consequences of supernovae This book presents the state of supernova studies at the beginning of the 1990 s as reported at a two week meeting on the Santa Cruz campus of the University of California in July 1989 involving 177 astronomers and astrophysicists from 17 nations The 110 papers contained in this volume report all aspects of the field observations at all wavelengths from radio through gamma rays bolometric light curves and spectra neutrino observations the theory of stellar explosions multidimensional models for mixing nucleosynthesis calculations synthetic spectral modeling presupernova evolution supernova remnants supernova rates supernovae as standard candles the interaction of supernovae with their surroundings and constitute the most comprehensive and up to date treatment of SN 1987A currently available Astronomers and astronomy graduate students will find this an invaluable summary of the current state of supernova research The informed layperson or undergraduate astronomy student will also find it a useful introduction and guide to the literature in the subject

Procs Of The 21st Century Chinese Astronomy Conf: Dedicated To Prof C C Lin K L Chan, K S Cheng, 1997-10-22 As a country with 5000 years of history China has made tremendous contributions to astronomy The 21st century marks the beginning of a new era for the astronomy of that country This is the proceedings of a conference held to honour Prof C C Lin the leading Chinese astronomer in the world academic community on his 80th birthday

Supernovae and Stellar Wind in the Interstellar Medium Tatjana A. Lozinskaya, 1991-11-01 A leading stellar astronomer summarizes our understanding of supernovae and their interaction with interstellar gas including the ambient interstellar medium the gas ejected in the

explosion itself and the gas emitted as stellar wind She examines the evolution of supernova remnants as they interact with the gas and considers the role of supernovae and stellar wind in the physical state of the interstellar medium Essential reading for specialists in supernovae and stellar evolution Supernovae: A Survey of Current Research M.J. Rees,R.J. Stoneham,2012-12-06 The theme of the conference held at the Institute of Astronomy in the summer of 1981 was Supernovae The topic was interpreted very broadly observations in all wavebands were discussed along with theories for the explosion mechanism and the light curves there were papers on supernova remnants and pulsar statistics other sessions dealt with the use of new techniques for improving supernova searches and with the importance of supernovae for cosmogonic and cosmological studies This book contains texts based on all the main review lectures together with a number of shorter papers which describe new results presented at the conference The Scientific Organising Committee responsible for arranging the programme consisted of J Audouze G B Brown J Danziger F Pacini M J Rees Chairman and J W Truran The conference was well attended with over 100 visitors to Cambridge as well as many local participants We are grateful to all those who helped with the practical organisation of the meeting especially Dr Michael Ingham Secretary of the Institute of Astronomy and Mrs Norah Tate We thank all the authors of the papers in this volume for the trouble they took in preparing written versions of their excellent lectures and for the efforts they made to meet our final deadline we wish especially to thank Drs W O Arnett and J M Lattimer for help with the editorial work Supernovae and Supernova Remnants C.B. Cosmovici,2012-12-06 This conference is a tribute to those astronomers who pioneered the investigation of this subject such a short time ago and who carried it through to its present state H Arp Concluding Remarks of the Conference A previous conference covering mainly the observational aspects of Supernovae was held at the Haute Provence Observatory in September 1963 In the following ten years this field of research has considerably increased it seemed therefore the right time to organize an international conference on Supernovae taking into account that in the meantime important discoveries such as the Pulsars had been made and new techniques of observation were available This book contains the proceedings of this conference held at Porto Cesareo Lecce Italy during the period May 7 through 11 1973 About one hundred participants from eighteen countries attended the conference It was also the first attempt to hold an international conference in the Salento the southernmost region of Apulia in whose capital Lecce the newly founded Faculty of Sciences of the University of Lecce is located The program of the conference included the results and techniques of Supernova surveys photometric and spectral studies statistics of Supernovae Supernova Remnants and finally theories on Supernovae and Supernova Remnants The Collected Writings of Fred L. Whipple Fred Lawrence Whipple,1972 An Introduction to Nuclear Astrophysics Richard N. Boyd,2007 Nuclear astrophysics background The instruments used to study astrophysics Nuclear basics of nuclear astrophysics Stellar basics of nuclear astrophysics Hydrogen burning Advanced stellar evolution supernovae and gamma ray bursters Production of the abundant heavy nuclides Nucleosynthesis on the proton rich side of stability X ray bursts and

magnetars The beginning of the universe **Supernovae and Supernova Remnants** International Astronomical Union. Colloquium,1996-03-21 A comprehensive and timely review of studies of supernovae and supernova remnants

Astrophysical Ages and Dating Methods Elisabeth Vangioni-Flam,1990 Supernovae Albert G.

Petschek,2012-12-06 For millennia mankind has watched as the heavens move in their stately progression from night to night and from year to year presaging with their changes the changing seasons The sun the moon and the planets move in what appears to be an unchanging firmament except occasionally when a new star appears Among the new stars there are comets novae and finally supernovae the subject of this book Superstitious mankind regarded these events as significant portents and recorded them carefully so that we have records of supernovae that may reach back as far as 1300 B C Clark and Stephenson 1977 Murdin and Murdin 1985 The Cygnus Loop believed to be a 15 000 year old supernova remnant at a distance of only 800 pc Chevalier and Seward 1988 must have awed our ancestors Tycho s supernova of 1572 at a distance of 2500 pc had a magnitude of 4.0 comparable to Venus at its brightest and Kepler s supernova of 1604 had a magnitude of 3 or so Thus the Cygnus Loop supernova might have had a magnitude of 6 or so and should have been readily visible in daytime A supernova in Vela about 8000 B C was comparably close as was SN 1006 whose magnitude may have been 9 While most of the supernova records come from the Old World the supernova of 1054 is recorded in at least one petroglyph in the American West *Literature 1981, Part 2* S. Böhme,W. Fricke,I. Heinrich,W. Hofmann,D. Krahn,V. R. Matas,D. Rosa,L. D.

Schmadel,G. Zech,2013-04-18 *R-process, The: The Astrophysical Origin Of The Heavy Elements And Related Rare Isotope Accelerator Physics - Procs Of The First Argonne/msu/jina/int Ria Workshop* Yong-zhong Qian,Ernst Rehm,Hendrik Schatz,Laura Lee,Friedrich-karl Thielemann,2004-09-15 The r process is a major mechanism for producing elements heavier than Fe In this book a summary of recent developments in theoretical experimental and observational studies of the r process are presented in 25 contributions The collected papers are up to date comprehensive and yet concise The topics covered include experiments on nuclei far from stability nuclear theory input for the r process observational and theoretical studies on abundances of heavy nuclei and astrophysical models of the r process The proceedings have been selected for coverage in Index to Scientific Technical Proceedings IISTP ISI Proceedings Index to Scientific Technical Proceedings IISTP CDRom version ISI Proceedings CC Proceedings Engineering Physical Sciences **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 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 differences 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 influenced 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 field is in fact very young having only attracted a large devoted following since the spectacular Type II SN1987A in the Large Magellanic Cloud the first naked eye SN in more than 400 years

Astronomy And Astrophysics: Recent Developments - Procs Of The 10th Portuguese Meeting Jose Pizarro S Lemos, Ana Maria Mourao, Luis Teodoro, Roberto Ugoccioni, 2001-11-12 This book discusses many of the recent theoretical and observational developments that have significant implications for astronomy and astrophysics The main themes are i cosmology ii gravitational wave astronomy and gravitational physics iii stellar astrophysics and iv active galactic nuclei and disk accretion There are also contributions on the solar system

The Royal Greenwich Observatory Report Royal Greenwich Observatory, 1978

Publications of Los Alamos Research Los Alamos National Laboratory, 1983

Problems of Collapse and Numerical Relativity D. Bancel, M. Signore, 2012-12-06 Proceedings of the NATO Advanced Research Workshop Toulouse France November 7 11 1983

Low Energy Neutrino-Nucleus Interactions at the Spallation Neutron Source Samuel Hedges, 2024-10-18 This thesis highlights the development and analysis of multiple neutrino detectors deployed to the Spallation Neutron Source SNS at Oak Ridge National Laboratory as part of the COHERENT

experiment It includes a preliminary measurement of the neutrino induced neutron cross section on lead and analysis that led to the first inclusive electron neutrino charged current measurement on iodine These results add to the small number of inelastic neutrino nucleus cross sections measured in this energy range which are useful for understanding supernova and solar neutrino detection sensitivity Additionally it discusses preliminary work for and design of COHERENT's ton scale NaI coherent elastic neutrino nucleus scattering CEvNS detector currently being deployed to the SNS Finally it includes information on a campaign to measure the nuclear recoil quenching factor of NaI using multiple crystals attempting to resolve inconsistencies with existing measurements

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