

Symbiotic Stars



A Symbiotic Star is binary containing a red giant with emission lines.

In many cases, there is a white dwarf accreting from the giant, producing a blue continuum that ionizes the wind and other circumstellar matter.

Some Symbiotic Stars are also recurrent novae: once every several decades or so, they undergo thermonuclear runaway.

This talk concentrates on those symbiotic stars with a white dwarf companion (others, e.g., GX 1+4, have a neutron star companion)

Symbiotic Stars

**International Astronomical Union.
Colloquium**



Symbiotic Stars:

Highly Evolved Close Binary Stars Anatolii Mikhaïlovich Cherepashchuk, 1996 The Symbiotic Stars S. J. Kenyon, 1986-12-18 Dr Kenyon has researched and assembled here all the existing data for the known symbiotic stars in which a dwarf star accretes material from its red giant companion In this book he summarises observational material covering the eruptive and quiescent phases of these objects and emphasises the important astrophysical problems raised and resolved by results at infrared optical radio ultraviolet and X ray wavelengths Physical models for the eruptive and quiescent phases and the long term evolution of symbiotic stars are discussed with the goal of developing observational diagnostics that serve to test the basic theories The book concludes with a detailed appendix and bibliography that will aid researchers interested in the history of individual symbiotic systems and confirm this volume as an indispensable handbook at any observatory where research on stellar objects is undertaken Variable Stars and Stellar Evolution Vicki E. Sherwood, L. Plaut, 1975-07-31 Proceedings of IAU Symposium No 67 held in Moscow U S S R July 29 August 4 1974 **Symbiotic Stars Probing Stellar Evolution** Romano L. M. Corradi, Joanna Mikolajewska, T. J. Mahoney, 2003 **Evolution of Peculiar Red Giant Stars** International Astronomical Union. Colloquium, 1989-06-22 Red giant stars are evolutionarily advanced objects in the closing stages of their nuclear burning lifetime Observed with increasing spectral coverage they display a variety of unusual phenomena Many are characterized by peculiar non solar surface chemical compositions which provide otherwise unobtainable clues to interior nucleosynthesis mixing and evolution Others may have received their chemical peculiarities by mass transfer from a companion This book reports on the proceedings of the International Astronomical Union Colloquium 106 It contains discussions on many aspects of these stars combining theory and observation to interpret these objects in terms of their evolutionary history There are 20 review papers 69 abstracts and short contributed papers and a complete transcript of the valuable summary panel discussion Professional astronomers will find this book useful as a reference work which incorporates current research on the modelling and evolution of these unstable stars *Pulsating Stars* Márcio Catelan, Horace A. Smith, 2015-03-23 This book surveys our understanding of stars which change in brightness because they pulsate Pulsating variable stars are keys to distance scales inside and beyond the Milky Way galaxy They test our understanding not only of stellar pulsation theory but also of stellar structure and evolution theory Moreover pulsating stars are important probes of the formation and evolution of our own and neighboring galaxies Our understanding of pulsating stars has greatly increased in recent years as large scale surveys of pulsating stars in the Milky Way and other Local Group galaxies have provided a wealth of new observations and as space based instruments have studied particular pulsating stars in unprecedented detail **The Realm of Interacting Binary Stars** J. Sahade, G.E. McCluskey, Y. Kondo, 2012-12-06 More than two centuries have elapsed since the story of the interacting binary stars began with the rediscovery of the variability of Algol by John Goodricke and the interpretation he proposed for explaining the regular periodic brightness variations which

he found Over this long span of time our knowledge about these systems has been growing and we have now reached a fairly good understanding of the structure and behavior of this interesting group of objects This book contains a timely summary of our present knowledge of interacting binary stars The chapters have been written by distinguished scientists who have done relevant research in the field of interacting binary stars *Exploring the Universe with the IUE Satellite* Y. Kondo, Willem Wamsteker, A. Boggess, M. Grewing, C. de Jager, A.L. Lane, Jeffrey L. Linsky, R. Wilson, 2013-12-11 This book was conceived to commemorate the continuing success of the guest observer program for the International Ultraviolet Explorer IUE satellite observatory It is also hoped that this volume will serve as a useful tutorial for those pursuing research in related fields with future space observatories As the IUE has been the product of the three way collaboration between the U S National Aeronautics and Space Administration NASA European Space Agency ESA and the British Engineering and Research Council SERC so is this book the fruit of the collaboration of the American and European participants in the IUE As such it is a testimony to timely international cooperation and sharing of resources that open up new possibilities The IUE spacecraft was launched on the 26th of January in 1978 into a geosynchronous orbit over the Atlantic Ocean The scientific operations of the IUE are performed for 16 hours a day from Goddard Space Flight Center in Greenbelt Maryland U S A and for 8 hours a day from ESA Villafranca Satellite Tracking Station near Madrid Spain **Interstellar Gas Dynamics** Harm J.

Habing, 2012-12-06 The following text forms the proceedings of a conference It is supposed to contain what was actually reported and discussed though it does this one hopes in a polished and organized way A sense of actuality a reporting quality makes this book different from a collection of review papers as for example a book in the series on Stars and Stellar Systems All Invited Reports have been included as the Reporters wrote them The Editor's task has been restricted to improving the presentation a process which in most cases involved only minor revisions In a few Reports the Editor did some heavy rewriting in those cases he checked with the Reporters Obviously a different course had to be taken with respect to the Discussions They were recorded on tape transcribed verbatim and then passed back to the discussants After the discussants returned their versions the Editor rearranged and condensed the texts and made a considerable effort to provide references Unfortunately he was not able to locate all relevant Russian papers from 1968 and 1969 The Editor takes the responsibility for mistakes made in this process which may have produced occasionally his own mix master Universe Actually only a few discussion remarks were rejected more often because of incomprehensibility rather than because the remark was far from the subject of the Symposium or was too long or was too trivial A few very long remarks have been condensed and put at the end of a Discussion **Stellar Polarimetry** David Clarke, 2009-10-30 Written by an experienced teacher and author this must have source for work with polarimetric equipment and polarimetry in astronomy conveys the knowledge of the technology and techniques needed to measure and interpret polarizations As such this monograph offers a brief introduction and refresher while also covering in detail statistics and data treatment as well as telescope optics For astronomers

physicists and those working in the optical industry Double Stars, Physical Properties and Generic Relations B. Hidayat, Zdenek Kopal, Jürgen H. Rahe, 2012-12-06 The Bosscha Observatory in Lembang Java Indonesia celebrated in 1983 its 60th anniversary Since its foundation the physical properties of binary systems have formed a major research topic of this observatory Until 1970 the study of visual binaries and the determination of orbits received most emphasis Since then also the evolution of close binary systems such as X ray binaries Wolf Rayet binaries and binary pulsars has been researched with priority in Lembang It seemed thus appropriate that a Colloquium devoted to the study of binary systems be held in Lembang at the time of the Observatory's anniversary In the Colloquium the role of wide double and multiple systems received special emphasis not only because of the long tradition of visual binary research at Lembang but also because their role in documenting stellar evolution has been largely overlooked in recent decades and needs to be brought into focus with the information forthcoming from close binaries The Colloquium covered the physical properties of visual as well as close binary systems and their generic relations in the broadest possible sense It was sponsored by the International Astronomical Union as IAU Colloquium No 80 Double Stars Physical Properties and Generic Relations After the official opening ceremony the meeting started with a discussion on the future of astronomy in Asia The scientific sessions began with the V Bappu Memorial Lecture on the Evolution of Binary Systems presented by Z Kopal **Understanding Variable Stars** John R. Percy, 2007-05-24 This book was first published in 2007 Variable stars are those that change brightness Their variability may be due to geometric processes such as rotation or eclipse by a companion star or physical processes such as vibration flares or cataclysmic explosions In each case variable stars provide unique information about the properties of stars and the processes that go on within them This book provides a concise overview of variable stars including a historical perspective an introduction to stars in general the techniques for discovering and studying variable stars and a description of the main types of variable stars It ends with short reflections about the connection between the study of variable stars and research education amateur astronomy and public interest in astronomy This book is intended for anyone with some background knowledge of astronomy but is especially suitable for undergraduate students and experienced amateur astronomers who can contribute to our understanding of these important stars *Stellar Populations* Piet C. van der Kruit, Gerry Gilmore, 2013-12-01 The concept of Stellar Populations has played a fundamental role in astronomy in the last few decades It was introduced by Walter Baade after he was able to resolve the Andromeda Nebula and its companions into stars when he used red sensitive plates and realised that there were two fundamentally different Hertzsprung Russell diagrams in our and these nearby galaxies common stars in the solar neighborhood versus globular clusters This result was published in two papers in 1944 in volume 100 of the Astrophysical Journal Subsequent research gave the concept a much firmer basis and at the famous Vatican Symposium of 1957 resulted in a general scheme of the concept and a working hypothesis for ideas on the formation and evolution of the Galaxy This has been a guiding principle of studies of our and other galaxies for decades

Some years ago it seemed to us appropriate to commemorate Baade's seminal work in 1994 when it would have its 50th anniversary and to review its present status and also its role in contemporary understanding. While we were in Leiden for an administrative committee we discussed the matter again and over beers on October 29 1991 we decided to take the initiative for an IAU Symposium on the subject during the 1994 IAU General Assembly in Den Haag the Netherlands.

Close Binaries in the 21st Century: New Opportunities and Challenges Alvaro Gimenez, Edward Guinan, Panagiotis Niarchos, Slavek Rucinski, 2007-04-05 This book is the proceedings of an international conference entitled Close Binaries in the 21st Century New Opportunities and Challenges held in Syros island Greece June 27-30 2005. The papers collected in this volume detail the latest achievements in the field and reflect the state of the art of the dynamically evolving area of binary star research.

Cataclysmic Variables and Related Objects Margherita Hack, Constanze La Dous, 1993 This volume begins with an introductory chapter on general properties of cataclysmic variables. Chapters 2 through 5 of Part 1 are devoted to observations and interpretation of dwarf novae and nova-like stars. Chapters 6 through 10 of Part 2 discuss the general observational properties of classical and recurrent novae, the theoretical models and the characteristics and models for some well-observed classical novae and recurrent novae. Chapters 11 through 14 of Part 3 are devoted to an overview of the observations of symbiotic stars to a description of the various models proposed for explaining the symbiotic phenomenon and to a discussion of a few selected objects respectively. Chapter 15 briefly examines the many unsolved problems posed by the observations of the different classes of cataclysmic variables and symbiotic stars.

Astrophysical Lasers Vladilen Letokhov, Sveneric Johansson, 2009 Progress in modern radio astronomy led to the discovery of space masers in the microwave range and it became a powerful tool for studies of interstellar star-forming molecular clouds. Progress in observational astronomy particularly with ground-based huge telescopes and the space-based Hubble Space Telescope has led to recent discoveries of space lasers in the optical range. These operate in gas condensations in the vicinity of the mysterious star Eta Carinae, one of the most luminous and massive stars of our Galaxy. Both maser and laser effects first demonstrated under laboratory conditions have now been discovered to occur under natural conditions in space too. This book describes consistently the elements of laser science, astrophysical plasmas, modern astronomical observation techniques and the fundamentals and properties of astrophysical lasers. A book with such an interdisciplinary scope has not been available to date. The book will also be useful for a wider audience interested in modern developments of the natural sciences and technology.

Literature 1988, Part 2 Astronomisches Rechen-Institut, 2013-06-29 From the reviews Astronomy and Astrophysics Abstracts has appeared in semi-annual volumes since 1969 and it has already become one of the fundamental publications in the fields of astronomy, astrophysics and neighbouring sciences. It is the most important English language abstracting journal in the mentioned branches. The abstracts are classified under more than a hundred subject categories thus permitting a quick survey of the whole extended material. The AAA is a valuable and important publication for all.

students and scientists working in the fields of astronomy and related sciences As such it represents a necessary ingredient of any astronomical library all over the world Space Science Reviews 1 Dividing the whole field plus related subjects into 108 categories each work is numbered and most are accompanied by brief abstracts Fairly comprehensive cross referencing links relevant papers to more than one category and exhaustive author and subject indices are to be found at the back making the catalogues easy to use The series appears to be so complete in its coverage and always less than a year out of date that I shall certainly have to make a little more space on those shelves for future volumes The Observatory Magazine 2

Planetary and Proto-Planetary Nebulae: From IRAS to ISO Andrea Preite Martinez, 2012-12-06 There are two questions that we can ask ourselves in order to describe this workshop The first question is a double question why a conference on this subject and why a workshop The first idea of organizing this workshop came while reading the scientific objectives of one of the instruments onboard the ISO satellite a phase A document concerning the IR camera On going through the scientific motivations for building the instrument I realized with surprise that no mention was made of Planetary Nebulae PN At present this is no longer true There is a chapter indicating the capabilities of the camera in the PN field and what we can reasonably expect from that instrument But it was at this moment that the first idea of organizing a workshop on the subject of PN came Of course there are other stronger motivations The first one is that I think this is the right moment after IRAS I think we all spent the last two or three years working on IRAS data IRAS represented a corner stone for those working on Planetary Nebulae the amount of data that came out of the instruments onboard the satellite was enormous and opened up new ways of looking at planetary nebulae as well as at other fields *The Impact of Long-Term Monitoring on Variable Star Research* C. Sterken, Mart de Groot, 2012-12-06 Long term monitoring is of fundamental significance in solving many important problems in astrophysics and furthermore has unequalled value in extending observational runs with small telescopes for the education of young astronomers in order to teach them how to secure high quality observational data over many years *The Impact of Long Term Monitoring on Variable Star Research* contains reports based on the analysis of data collected in the visible IR and radio measurement ranges as well as the design and history of well known photometric systems Though the reporting of novel results forms an important part of the book there are also reports of eight discussion sessions covering more general areas such as extinction monitoring the problems of archival storage of astronomical data service observation the role played by long term monitoring in graduate teaching and thesis supervision the interplay between the great observational effort and theory the contribution of LTM to new knowledge of fundamental data and the increasing decommissioning of telescopes of modest aperture Planetary Nebulae R. Weinberger, A. Acker, 2012-12-06 Planetary nebulae are a keystone for the understanding of the evolution of stars for deep insights into the physical processes prevailing in highly excited dilute nebulae and for the chemical evolution in galaxies These objects displaying an intriguing morphology have a short lifetime of a few tens of thousands of years and have become one of the best studied classes of

celestial sources However despite large and successful efforts from both the observational and theoretical side planetary nebulae still keep some of their secrets like the widely unknown distances and will undoubtedly also be objects of thorough investigations in the years to come

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