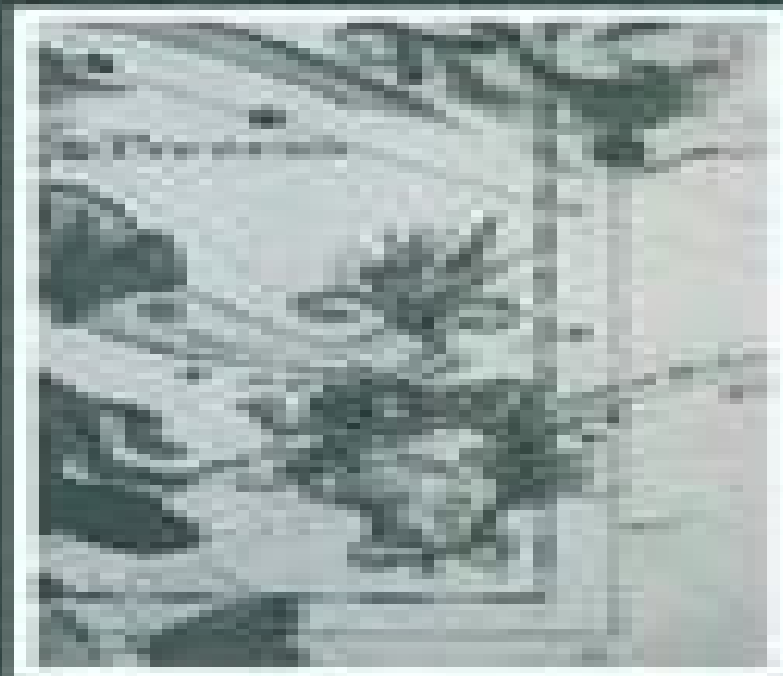


The Realm of Interacting Binary Stars

J. Bahado, G. E. McCluskey, Jr.,
and Y. Kondo (eds.)



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Realm Of Interacting Binary Stars

**Willem Wamsteker, Malcolm S.
Longair, Y. Kondo**



Realm Of Interacting Binary Stars:

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 *Binary Stars as Critical Tools and Tests in Contemporary Astrophysics (IAU S240)*

International Astronomical Union. Symposium, 2007-08-27 IAU Symposium 240 held in conjunction with the 26th General Assembly of the International Astronomical Union highlights the latest advances in the field of binary and multiple stars and was the first major meeting in recent years bringing together members of both the wide and close binary communities Topics discussed ranged from common proper motion pairs and other fragile binaries to contact binaries and star brown dwarf planet systems exploring the numerous interests common to all binary star researchers Highlights included talks on observing binaries using high angular and spectral resolution techniques the impacts of new and planned large scale surveys recent models for binary evolution new methods for analyzing cataclysmic pairs and disentangling spectra surveys of extragalactic eclipsing binaries Doppler tomography and imaging and binaries as probes of the Galaxy's chemical and dynamical evolution This volume will be an important reference source for binary star researchers for many years to come

Evolutionary Processes in Interacting Binary Stars Y. Kondo, R.F. Sisteró, R.S. Polidan, 1992-06-30 This book contains the proceedings of IAU Symposium No 151 Evolutionary Processes in Interacting Binary Stars which was held from 5 to 9 August 1991 in Cordoba Argentina The primary aim of this conference was to review and evaluate our current understanding of the evolutionary processes in wide variety of interacting binary stars from their births to their deaths Subjects included the formation of binaries mass flow and transfer accretion processes and binaries with collapsed components such as novae X ray binaries and binary pulsars As the field covered is both broad and diverse there were in all thirty seven invited talks sixty two contributed papers were also presented In addition these proceedings contain comments from a panel discussion of the major unsolved problems of interacting binary stars

Reports on Astronomy Jacqueline Bergeron, 2012-12-06 IAU Transactions are published as a volume corresponding to each General Assembly Volume A is produced prior to the Assembly and contains Reports on Astronomy prepared by each Commission President The intention is to summarize the astronomical results that have affected the work of the Commission since the production of the previous Reports up to a time which is about one year prior to the General Assembly Volume B is produced after the Assembly and contains accounts of Commission Meetings which were held together with other material The reports included in the present volume range from outline

summaries to lengthy compilations and references Most reports are in English *Frontiers Of Space And Ground-Based Astronomy* Willem Wamsteker, Malcolm S. Longair, Y. Kondo, 2012-12-06 ROSAT Observations G HASINGER Max Planck Institut für extraterrestrische Physik D 85740 Garching Germany Abstract This review describes the most recent advances in the study of the extragalactic soft X ray background and what we can learn about its constituents The deepest pointed observations with the ROSAT PSPC are discussed The logN logS relation is presented which reaches to the faintest X ray fluxes and to the highest AGN surface densities ever achieved The N S relation shows a 2 density in excess of 400 deg at the faintest fluxes and a flattening below the Einstein Deep Survey limit About 60% of the extragalactic background has been resolved in the deepest field Detailed source spectra and first optical and radio identifications will be discussed The results are put into perspective of the higher energy X ray background Key words X rays background radiations active galactic nuclei 1 Introduction The extragalactic X ray background XRB discovered about 30 years ago has been studied extensively with many X ray experiments in particular with the satellites HEAO I and II see e.g. Boldt 1987 and with ROSAT e.g. Hasinger et al 1993 Figure 1 shows a compilation of some of the most recent spectral measurements for the X ray background Over the energy range from 3 to about 100 keV its spectrum can be well approximated by an optically thin thermal bremsstrahlung model with $kT \approx 40$ keV while at lower X ray energies a steepening into a new component has been observed observed e.g. *A Guide to Close Binary Systems* Edwin Budding, Osman Demircan, 2022-05-12 Introduction to Close Binary Systems provides a comprehensive survey and guide to the fast moving field of multiple specifically binary stars with an up to date account of research around close i.e. interacting pairs Such interactions allow direct quantification of stellar properties opening up factual insights into basic building blocks of the Universe The book provides a much needed update for the seminal Close Binary Systems of Zdeněk Kopal Following a comparable plan it presents relevant subject matter with an emphasis on building a framework of understanding to serve as a supporting resource for students and researchers The text starts from a general historical background and progresses into the main theoretical ideas supporting our *prima facie* interpretation of observations The central chapters explore further into these observational methods arranged according to the classic subdivisions of astrometry spectroscopy and photometry Optimal inversion of observational data into model parametrization is a theme through these chapters Significant here is the problem of how non uniqueness in modelling affects interpretation The underlying issues of stellar evolution bearing on observational evidence become paramount in the last four chapters The book proceeds step by step from directly understandable examples of unevolved pairs to the challenging cases where stars are found in more and more extreme conditions leading up to the mergers of massive black hole pairs seen in the new field of gravitational wave astronomy This is a valuable reference for postgraduate and advanced undergraduate students working in mainstream areas of stellar astrophysics with applications also to exoplanet research which shares some methodological features Course designers for stellar astrophysics will find a useful selection of topics

within this book Key features Provides a well explained and backgrounded up to date account of close binary systems in a fast moving field of research that is growing in scientific importance Surveys a wide range of case studies within the context of binary and multiple star systems Fills an acknowledged gap in current literature Cover Image A public memorial to Zdenek Kopal in his home town birthplace of Litomyšl in Czechia

Allen's Astrophysical Quantities Clabon Walter Allen, Arthur N. Cox, 2000 This new fourth edition of Allen's classic *Astrophysical Quantities* belongs on every astronomer's bookshelf It has been thoroughly revised and brought up to date by a team of more than ninety internationally renowned astronomers and astrophysicists While it follows the basic format of the original this indispensable reference has grown to more than twice the size of the earlier editions to accommodate the great strides made in astronomy and astrophysics It includes detailed tables of the most recent data on General constants and units Atoms molecules and spectra Observational astronomy at all wavelengths from radio to gamma rays and neutrinos Planetary astronomy Earth planets and satellites and solar system small bodies The Sun normal stars and stars with special characteristics Stellar populations Cataclysmic and symbiotic variables supernovae Theoretical stellar evolution Circumstellar and interstellar material Star clusters galaxies quasars and active galactic nuclei Clusters and groups of galaxies Cosmology As well as much explanatory material and extensive and up to date bibliographies

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Cataclysmic Variables A. Bianchini, M. Della Valle, M. Orio, 2012-12-06 Cataclysmic Variables CVs are well furnished laboratories in which one can investigate a number of important physical processes These processes include thermonuclear reactions nebular physics winds mass accretion phenomena on compact objects magnetohydrodynamics plasmas thermal and non thermal radiative processes relativistic phenomena dust formation etc In the recent year the most exciting development in our opinion was that the small cold and invisible secondary components of CVs were found to be the prime motors for the evolution of close binary systems disclosing new scenarios for research All branches of astronomy and astrophysics often take advantage of the new ideas brought by the study of CVs It is for this reason we believe that meetings on CVs are

important for most of the astronomical community The idea of a Congress on CVs in Padova has been fluttering in the air for a few years After all we thought a large part of the scientific heritage of Padova and Asiago Observatories is represented by the study of variable stars and in particular of CV s as Prof L Rosino reminded us at the very beginning of the Congress We finally chose Abano Terme as the site of the Conference not merely because Abano is one of the most famous centers in Europe for mud therapy and astronomers easily suffer from rheumatism but also because we knew that a very hearty welcome from the Abano Municipality and touristic associations awaited us

The Astrophysics of Emission-Line Stars

Tomokazu Kogure, Kam-Ching Leung, 2010-05-05 Many types of stars show conspicuous emission lines in their optical spectra These stars are broadly referred to as emission line stars Emission line stars are attractive to many people because of their spectacular phenomena and their amazing varieties and variability This book offers general information on emission line stars starting from a brief introduction to stellar astrophysics and then moving to a broad overview of emission line stars including early and late type stars as well as pre main sequence stars Detailed references and index are prepared for further reading Tomokazu Kogure s email address tkogure pa2 so net ne jp

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