



X Ray Binaries

Bradford John Wargelin



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X-ray Binaries Walter H. G. Lewin, Walter H. Lewin, Edward P. J. van den Heuvel, Jan van Paradijs, 1997-01-16 X ray binaries are some of the most varied and perplexing systems known to astronomers The compact object which accretes mass from its companion star may be a white dwarf neutron star or black hole whereas the donor star can be a normal star or a white dwarf The various combinations differ widely in their behaviour and this timely volume provides a unique reference of our knowledge to date of all of them Fifteen specially written chapters by a team of the world s foremost researchers in the field explore all aspects of the X ray binaries They cover the X ray ultraviolet optical and radio properties of these violent systems and address key issues such as how were these systems formed and what will be their fate how can we understand X ray bursts and how the quasi periodic oscillations what is the connection between millisecond radio pulsars and low mass X ray binaries and how does the magnetic field of a neutron star decay This long awaited review provides graduate students and researchers with the standard reference on X ray binaries for many years to come

The Evolution of Galactic X-Ray Binaries J. Truemper, W.H.G. Lewin, W. Brinkmann (Ed), 1986-02-28 Proceedings of the NATO Advanced Research Workshop Ringberg Castle Rottach Egern Germany June 17 21 1985

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A Population Explosion Reba Bandyopadhyay, Stefanie Wachter, Dawn Gelino, Christopher Gelino, 2008-06-04 Technological advances in X ray astronomy have recently led to the discovery of a large number of previously undetected accreting binaries increasing by an order of magnitude their known population in the Galaxy This meeting addressed the current state of observational and theoretical research into the X ray binary population as a whole including both well studied systems and the newly discovered populations and examined the interaction of X ray binaries with their environment within our own Galaxy and in external galaxies

Literature 1980, Part 1 Siegfried Böhme, Ute Esser, Professor Dr. Walter Fricke, Inge Heinrich, Wilfried Hofmann, Dietlinde Krahn, Dorothea Rosa, Dr. Lutz D. Schmadel, Gert Zech, 2013-11-11 Astronomy and Astrophysics Abstracts which has appeared in semi annual volumes since 1969 is devoted to the recording summarizing and indexing of astronomical publications throughout the world It is prepared under the auspices of the International Astronomical Union according to a resolution adopted at the 14th General Assembly in 1970 Astronomy and Astrophysics Abstracts aims to present a comprehensive documentation of literature in all fields of astronomy and astrophysics Every effort will be made to ensure that the average time interval between the date of receipt of the original literature and publication of the abstracts will not exceed eight months This time interval is near to that achieved by monthly abstracting journals compared to which our system of accumulating abstracts for about six months offers the advantage of greater convenience for the user I 1980 some older Volume 27 contains literature published in 1980 and received before August literature which was received late

and which is not recorded in earlier volumes is also included We acknowledge with thanks contributions to this volume by Dr J Bouska Prague who surveyed journals and publications in Czech and supplied us with abstracts in English *Literature 1979, Part 1* Siegfried Böhme,Ute Esser,Professor Dr. Walter Fricke,Inge Heinrich,Wilfried Hofmann,Dietlinde Krahn,Dorothea Rosa,Dr. Lutz D. Schmadel,Gert Zech,2013-04-18 **Literature 1980, Part 2** Siegfried Böhme,Professor Dr. Walter Fricke,Inge Heinrich,Wilfried Hofmann,Dietlinde Krahn,Dorothea Rosa,Dr. Lutz D. Schmadel,Gert Zech,2013-04-18 *Literature 1978, Part 1* S. Böhme,U. Esser,W. Fricke,I. Heinrich,D. Krahn,L. D. Schmadel,G. Zech,2013-11-11 *Author and Subject Indexes* S. Böhme,Ute Esser,Professor Dr. Walter Fricke,Inge Heinrich,W. Hofmann,Dietlinde Krahn,D. Rosa,Dr. Lutz D. Schmadel,Gert Zech,2013-11-11 Astronomy and Astrophysics Abstracts which has appeared in semi annual volumes since 1969 is devoted to the recording summarizing and indexing of astronomical publications throughout the world According to a resolution adopted at the 14th General Assembly in 1970 it is prepared under the auspices of the International Astronomical Union Astronomy and Astrophysics Abstracts aims to present a comprehensive documentation in all fields of astronomy and astrophysics It is due to the ever lasting increase of the bulk of material that the information content of our regular volumes is growing seriously Therefore the need for detailed index informations allowing the performance of retrospective literature searches becomes more and more important Volume 23 24 the second General Index of Astronomy and Astrophysics Abstracts contains author and subject indexes to volumes II 14 and respectively 17 22 Thus the astronomical and astrophysical literature of the whole five year period 1974 1978 is covered by this volume It is a pleasure to express our gratitude to Ms Helga Ballmann Ms Monika Betz Mr Gernot Burkhardt Ms Lore Kiefert Ms Dagmar Roeder Ms Dimitra Roussou and Mr Werner Sanns for their kind support during the detailed preparation steps of the indexes **Literature 1977, Part 2** Siegfried Böhme,Ute Esser,Walter Fricke,Inge Heinrich,Dietlinde Krahn,Lutz D. Schmadel,Gert Zech,2013-03-14 Astronomy and Astrophysics Abstracts which has appeared in semi annual volumes since 1969 is devoted to the recording summarizing and indexing of astronomical publications throughout the world It is prepared under the auspices of the International Astronomical Union according to a resolution adopted at the 14th General Assembly in 1970 Astronomy and Astrophysics Abstracts aims to present a comprehensive documentation of literature in all fields of astronomy and astrophysics Every effort will be made to ensure that the average time interval between the date of receipt of the original literature and publication of the abstracts will not exceed eight months This time interval is near to that achieved by monthly abstracting journals compared to which our system of accumulating abstracts for about six months offers the advantage of greater convenience for the user Volume 20 contains literature published in 1977 and received before February 20 1978 some older literature which was received late and which is not recorded in earlier volumes is also included We acknowledge with thanks contributions to this volume by Dr J Bouska Prague who surveyed journals and publications in Czech and supplied us with abstracts in English and by Prof P Brosche Bonn who

supplied us with literature concerning some border fields of astronomy **Literature 1981, Part 1** Siegfried Böhme, Professor Dr. Walter Fricke, Inge Heinrich, Wilfried Hofmann, Dietlinde Krahn, Dorothea Rosa, Dr. Lutz D. Schmadel, Gert Zech, 2013-11-11 Literature 1976, Part 2 S. Böhme, Ute Esser, Professor Dr. Walter Fricke, U. Güntzel-Lingner, I. Heinrich, D. Krahn, Dr. Lutz D. Schmadel, G. Zech, 2013-04-18 Astronomy and Astrophysics Abstracts which has appeared in semi annual volumes since 1969 is devoted to the recording summarizing and indexing of astronomical publications throughout the world It is prepared under the auspices of the International Astronomical Union according to a resolution adopted at the 14th General Assembly in 1970 Astronomy and Astrophysics Abstracts aims to present a comprehensive documentation of literature in all fields of astronomy and astrophysics Every effort will be made to ensure that the average time interval between the date of receipt of the original literature and publication of the abstracts will not exceed eight months This time interval is near to that achieved by monthly abstracting journals compared to which our system of accumulating abstracts for about six months offers the advantage of greater convenience for the user Volume 18 contains literature published in 1976 and received before March 1 1977 some older literature which was received late and which is not recorded in earlier volumes is also included **The Evolution of X-ray Binaries** Stephen S. Holt, Charles S. Day, 1994 Proceedings of the fourth annual October Physics Conference organized by astrophysicists at the Goddard Space Flight Center and the U of Maryland The proceedings begin with two invited summaries reviewing the general subject Three Decades of X Ray Astronomy from the Point of View of a Biased Observer **Low Energy X-ray Spectra of 16 X-ray Binaries** Bradford John Wargelin, 1985 *From X-ray Binaries to Quasars: Black Holes on All Mass Scales* Thomas J. Maccarone, Robert P. Fender, Luis C. Ho, 2007-01-28 This volume brings together contributions from many of the world's leading authorities on black hole accretion The papers within represent part of a new movement to make use of the relative advantages of studying stellar mass and supermassive black holes and to bring together the knowledge gained from the two approaches The topics discussed here run the gamut of the state of the art in black hole observational and theoretical work variability spectroscopy disk jet connections and multi wavelength campaigns on black holes are all covered Reprinted from *ASTROPHYSICS AND SPACE SCIENCE* 300 1 3 2005 **Compact Stellar X-ray Sources** Walter Lewin, Michiel van der Klis, 2006-04-06 X ray astronomy is the prime available window on astrophysical compact objects black holes neutron stars and white dwarfs New observational opportunities have led to an explosion of knowledge in this field This book provides a comprehensive overview of the astrophysics of compact objects that emit X rays Sixteen chapters written by the foremost experts in the field cover the observations and the astrophysical interpretation of these objects Topics covered include binary systems gamma ray burst sources anomalous X ray pulsars super soft sources and enigmatic fast X ray transients Further chapters are dedicated to isolated neutron stars and the X ray source populations of globular clusters The properties of X ray binaries are discussed in depth in chapters on quasi periodic oscillations and related aperiodic X ray variability X ray bursts

black holes and relativistic jets This is a valuable reference for both graduate students and active researchers

Astrophysical Discs Jerry A. Sellwood, Jeremy Goodman, 1999 **Physics Briefs** ,1992 Report European Southern Observatory, 1976 *Interacting Binary Stars* Allen Wayne Shafter, 1994

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