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# THE NATURE OF SYMBIOTIC STARS

Edited by Michael Friedjung and Roberto Viotti

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# Nature Of Symbiotic Stars

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## Nature Of Symbiotic Stars:

*The Nature of Symbiotic Stars* International Astronomical Union. Colloquium, 1982      *The Nature of Symbiotic Stars* M. Friedjung, Roberto Viotti, 2012-12-06 Many aspects of symbiotic stars have long puzzled astronomers For instance while most students of the subject have considered them binary many have at different times supported single star models The nature of their outbursts is uncertain while the dividing line between symbiotic stars and novae is unclear In any case doubts can even be raised as to whether a class of Symbiotic Stars really exists Much new data has been obtained in recent years in particular from the study of radiation outside the visual region Many symbiotic stars have been studied in the UV with IUE since 1978 while X rays were detected in a few cases with the Einstein satellite There have been a number of infrared and radio studies and the number of known symbiotic stars has also considerably increased Furthermore theoretical ideas have in recent years been considerably enriched by concepts of stellar winds and accretion phenomena in binaries including accretion disks It was therefore extremely opportune and timely to hold the first international meeting exclusively devoted to these stars so as to consider the new results from such a wide range of observations in different spectral regions and the conclusions which can be drawn for possible models as well as theories of the nature and structure of symbiotic stars After a session devoted to new observations in different spectral regions a session was spent considering some individual stars      *The Nature of Symbiotic Stars* M. Friedjung, Roberto Viotti, 1982-06-30 Many aspects of symbiotic stars have long puzzled astronomers For instance while most students of the subject have considered them binary many have at different times supported single star models The nature of their outbursts is uncertain while the dividing line between symbiotic stars and novae is unclear In any case doubts can even be raised as to whether a class of Symbiotic Stars really exists Much new data has been obtained in recent years in particular from the study of radiation outside the visual region Many symbiotic stars have been studied in the UV with IUE since 1978 while X rays were detected in a few cases with the Einstein satellite There have been a number of infrared and radio studies and the number of known symbiotic stars has also considerably increased Furthermore theoretical ideas have in recent years been considerably enriched by concepts of stellar winds and accretion phenomena in binaries including accretion disks It was therefore extremely opportune and timely to hold the first international meeting exclusively devoted to these stars so as to consider the new results from such a wide range of observations in different spectral regions and the conclusions which can be drawn for possible models as well as theories of the nature and structure of symbiotic stars After a session devoted to new observations in different spectral regions a session was spent considering some individual stars      **Literature 1982, Part 2** Siegfried Böhme, Professor Dr. Walter Fricke, Herbert Hefele, Inge Heinrich, Wilfried Hofmann, Dietlinde Krahn, Vladimir R. Matas, Dr. Lutz D. Schmadel, Gert Zech, 2013-11-09 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

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*Investigation Into the Nature of the Symbiotic Stars* Mark Haines Slovak,1982 **The Physical Nature of the Symbiotic Stars** Scott Jay Kenyon,1983 *The Impact of Binary Stars on Stellar Evolution* Giacomo Beccari, Henri M. J.

Boffin,2019-04-18 Stars are mostly found in binary and multiple systems with at least 50% of all solar like stars having companions this fraction approaches 100% for the most massive stars A large proportion of these systems interact and alter the structure and evolution of their components leading to exotic objects such as Algol variables blue stragglers and other chemically peculiar stars but also to phenomena such as non spherical planetary nebulae supernovae and gamma ray bursts While it is understood that binaries play a critical role in the Initial Mass Function the interactions among binary systems significantly affect the dynamical evolution of stellar clusters and galaxies This interdisciplinary volume presents results from state of the art models and observations aimed at studying the impact of binaries on stellar evolution in resolved and unresolved populations Serving as a bridge between observational and theoretical astronomy it is a comprehensive review for researchers and advanced students of astrophysics *Symbiotic Stars Probing Stellar Evolution* Romano L. M.

Corradi, Joanna Mikolajewska, T. J. Mahoney, 2003 *The Analysis of Starlight* John B. Hearnshaw, 2014-03-17 A reference for astronomers and historians on astronomical spectroscopy from the discovery of spectral lines through to the year 2000

*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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