

Stellar Surface Structures

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Stellar Surface Structure

Jeremy Walsh, Ivan J. Danziger



Stellar Surface Structure:

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Stellar Surface Structure International Astronomical Union. Symposium, 1995

Stellar Surface Structure Klaus G. Strassmeier, 1995 **Instrumentation for Large Telescopes** Jose M. Rodriguez Espinosa, A. HERRERO (Ed), Francisco Sánchez, 1997-10-09 A new generation of large ground based telescopes are just coming into operation They will take astronomical research well into the next century These extremely powerful telescopes demand specially designed instruments and observing techniques The VII Canary Islands Winter School of Astrophysics gathered together leading experts from around the world to review this technology Based on the meeting this timely volume presents eight specially written chapters covering all aspects of telescope instrumentation This book provides an essential reference for all astronomers who will be the users of these large telescopes It reviews both the challenges

involved in designing successful instrumentation and the questions in astronomy they must address We are taken from the fundamentals of astronomical imaging low and high resolution spectroscopy and polarimetry up to the state of the art technology in adaptive optics and laser guide stars interferometry image pattern recognition and optical near and mid infrared arrays This timely volume provides an excellent introduction for graduate students and an invaluable reference for researchers using the latest generation of large astronomical telescopes

Solar Photosphere: Structure, Convection, and Magnetic Fields Jan Olof Stenflo, 2012-12-06 Solar and stellar photospheres constitute the layers most accessible to observations forming the interface between the interior and the outside of the stars The solar atmosphere is a rich physics laboratory in which the whole spectrum of radiative dynamical and magnetic processes that transfer energy into space can be observed As the fundamental processes take place on very small spatial scales we need high resolution observations to explore them On the other hand the small scale processes act together to form global properties of the sun which have their origins in the solar interior The rapid advances in observational techniques and theoretical modelling over the past decade made it very timely to bring together scientists from east and west to the first IAU Symposium on this topic The physics of the photosphere involves complicated interactions between magnetic fields convection waves and radiation During the past decade our understanding of these generally small scale structures and processes has been dramatically advanced New instrumentations on ground and in space have given us new means to study the granular convection Diagnostic methods in Stokes polarimetry have allowed us to go beyond the limitations of spatial resolution to explore the structure and dynamics of the subarcsec magnetic structures Extensive numerical simulations of the interaction between convection and magnetic fields using powerful supercomputers are providing deepened physical insight Granulation magnetic fields and dynamo processes are being explored in the photospheres of other stars guided by our improved understanding of the solar photosphere

The Exoplanet Handbook Michael Perryman, 2011-05-26 Exoplanet research is one of the most explosive subjects in astronomy today More than 500 exoplanets are now known and groups world wide are actively involved in a broad range of observational and theoretical efforts This book ties together these many avenues of investigation from the perspectives of observation technology and theory to give a comprehensive up to date review of the entire field All areas of exoplanet investigation are covered making it a unique and valuable guide for researchers in astronomy and planetary science including those new to the field It treats the many different techniques now available for exoplanet detection and characterisation the broad range of underlying physics the overlap with related topics in solar system and Earth sciences and the concepts underpinning future developments It emphasises the interconnection between the various fields and provides extensive references to more in depth treatments and reviews

Progress in Stellar Spectral Line Formation Theory J.E. Beckman, L. Crivellari, 2012-12-06 Spectral line formation theory is at the heart of astrophysical diagnostic Our knowledge of abundances in both stellar and interstellar contexts comes almost entirely from line analysis as does a major fraction of our

ability to model stellar atmospheres As new facets of the universe become observable so the techniques of high resolution spectroscopy are brought to bear with great reward Improved instruments such as echelle spectrographs employing detectors of high quantum efficiency have revolutioned our ability to observe high quality line profiles although until now this ability has been confined to the brightest stars Fabry Perot interferometers and their modern derivatives are bringing new ranges of resolving power to studies of atomic and ionic interstellar lines and of course radio techniques imply exceedingly high resolution for the cool interstellar medium of molecules and radicals Telescopes in space are extending the spectral range of these types of observations Already the Copernicus and IUE high resolution spectrographs have given us a tantalizing glimmer of what it will be like to obtain ultraviolet spectra with resolution and signal to noise ratio approaching those obtainable on the ground Fairly soon Space Telescope will be producing high resolution spectroscopic data of unparalleled quality and distance range As often happens in astrophysics the challenge is now coming from the observers to the theorists to provide interpretational tools which are adequate to the state of the data

Publications of the National Institute of Standards and Technology ... Catalog National Institute of Standards and Technology (U.S.),1991

Cyclical Variability in Stellar Winds Lex Kaper,Alexander W. Fullerton,2013-06-05 It is well known that stellar winds are variable and the fluctuations are often cyclical in nature This property seems to be shared by the winds of cool and hot stars even though their outflows are driven by fundamentally different physical mechanisms Since very similar models have been proposed to explain the cyclical wind variations observed in a wide variety of stars the time was ripe for astrophysicists from many different sub disciplines to present the state of the art in a concise form The proceedings will provide a useful up to date overview of the observations interpretation and modelling of the time dependent mass outflows from all sorts of stars

Science with the VLT Interferometer Francesco Paresce,2013-06-29 It has always been ESO's aim to operate the VLT in an interferometric mode VLTI which allows the coherent combination of stellar light beams collected by the four 8 m telescopes and by several smaller auxiliary telescopes In December 1993 in response to financial difficulties the ESO Council decided to postpone implementation of the VLTI Coude trains and associated adaptive optics for all the UTs but included provisions for continuing technological and development programmes devoted to the aim of reintroducing these capabilities at the earliest possible date The desirability of carrying out the full VLTI programme as originally envisaged at the earliest possible moment has not however diminished especially in view of VLTI's exceptional capabilities and resulting potential for new and exciting discoveries In recent years interferometric projects have begun to play a central role in ground based high resolution astronomy and numerous instruments have been completed or are in the process of construction Several large aperture interferometers will probably come on line near the turn of the century The impending presence of these new instruments represents an important incentive both for clarifying the scientific cases for various VLTI implementation plans and for ensuring VLTI's competitiveness in the international context over the next 10-20 years

Binary Stars: Selected

Topics on Observations and Physical Processes F. C. Lazaro, M. J. Arevalo, 2008-01-11 More than half of all stars in the universe formed and evolved as binary systems and their study is essential for understanding stellar and galactic evolution The six lectures in this book give both a readable introduction and an up to date review of nearly all aspects of research into binary stars including the range from common binaries to more exotic systems composed of white dwarfs neutron stars and black holes

Literature 1985, Part 2 S. Böhme, U. Esser, W. Fricke, H. Hefele, I. Heinrich, W. Hofmann, D. Krahn, V. R. Matas, L. D. Schmadel, G. Zech, 2013-12-14 Astronomy and Astrophysics Abstracts aims to present a comprehensive documentation of the literature concerning all aspects of astronomy astrophysics and their border fields It is devoted to the recording summarizing and indexing of the relevant publications throughout the world Astronomy and Astrophysics Abstracts is prepared by a special department of the Astronomisches Rechen Institut under the auspices of the International Astronomical Union Volume 40 records literature published in 1985 and received before February 15 1986 Some older documents which we received late and which are not surveyed in earlier volumes are included too We acknowledge with thanks contributions of our colleagues all over the world We also express our gratitude to all organizations observatories and publishers which provide us with complimentary copies of their publications Starting with Volume 33 all the recording correction and data processing work was done by means of computers The recording was done by our technical staff members Ms Helga Ballmann Ms Mona El Choura t Ms Monika Kohl Ms Sylvia Matyssek Ms Karirr Burkhardt Ms Susanne Schl telbmrg Mr Martin Schl telburg and Mr Stefan Wagner supported our task by careful proof reading It is a pleasure to thank them all for their encouragement

Very Low-Mass Stars and Brown Dwarfs Rafael Rebolo, Maria Rosa Zapatero-Osorio, 2000-11-27 This volume provides a state of the art review of our current knowledge of brown dwarfs and very low mass stars The hunt for and study of these elusive objects is currently one of the most dynamic areas of research in astronomy for two reasons Brown dwarfs bridge the gap between stars and planets and they may constitute an important part of the dark matter of the Universe This volume presents review articles from a team of international authorities who gathered at a conference in La Palma to assess the spectacular progress that has been made in this field in the last few years

The Brightest Binaries D. Vanbeveren, W. van Rensbergen, C. de Loore, 2001-11-30 The evolution of galaxies is governed mainly by the evolution of massive stars whereas the evolution of a massive star depends primarily on its mass chemical composition and on whether or not the star is a Single object or a binary component To study the evolution of galaxies it is therefore essential to know how stellar masses are distributed at birth how many stars are formed in binaries and what the mass ratio and orbital period distribution of binaries look like Massive stars are intrinsically the brightest stars so that it may be possible to discover their properties in distant groups provided that large telescopes can be used for basic stellar observations However until now the observations of massive stars have been reasonably complete only for a small region of our own Galaxy 3 kpc from the Sun One hopes that the conclusions resulting from these observations hold for the whole Galaxy for the whole cosmos With The

Brightest Stars of De Jager 1980 in mind the present monograph is an addendum and an update in which we discuss the observations of The Brightest Binaries in the framework of stellar evolution A small or intermediate mass star close to the Sun may look brighter than a massive one far away However within volume limited star samples the massive stars are on average also the brightest ones In the present monograph similarly as in the work of De Jager bright means massive The book consists of four main chapters *Stellar Surface Structure* Klaus G. Strassmeier, Jeffrey L. Linsky, 1996-05-31 In the past decade indirect Doppler imaging techniques have opened up a whole new discipline in stellar astronomy providing increasingly detailed photometric magnetic and chemical inhomogeneity images of stellar surfaces Furthermore new optical interferometers are already being used with sophisticated interferometer techniques to image stellar surface structures more directly and in the future the ESO VLT Interferometer and other instruments will extend these capabilities enormously These developments are highlighted in the first two sections of this book The large number of recent results ground based and space based and the lack of a generally accepted dynamo theory with predictive power for the stars and the Sun result in an ever growing complexity of interpretation of individual results The IAU Symposium 176 on Stellar Surface Structure consequently focused on spatially resolved stellar observations throughout the H R diagram from O and B stars to late M stars Two further sections in this book summarize the current observational data on surface inhomogeneities in stellar photospheres chromospheres and coronae Finally a special section is devoted to next generation model atmospheres

Science with the VLT Jeremy Walsh, Ivan J. Danziger, 2013-06-05 ESO's new and exciting telescope the VLT in Chile will certainly bring a host of new results in optical astronomy for the years to come This workshop surveys a large variety of possible observations and the needed instrumentation It is an exciting overview of front research in astronomy rarely published before The book covers the whole gamut of optical IR astronomy from the solar system search for planets in nearby stars physics of galactic stars and clusters galactic structure structure of nearby galaxies AGN and quasars clusters of galaxies to large structure and cosmology Furthermore it summarizes the two panel discussions **Basics of Cosmic Structures** Ludwik Marian Celnikier, 1989 **High Resolution Infrared Spectroscopy in Astronomy** Hans Ulrich Käufl, R. Siebenmorgen, Alan F.M. Moorwood, 2005-07-18 Two specialized new instruments for ESO's VLT VISIR and CRIREs spawned the idea for this workshop CRIREs is a dedicated very high resolution infrared spectrograph VISIR features a high resolution spectroscopic mode Together the instruments combine the sensitivity of an 8m telescope with the now well established reliability of VLT facility instruments High resolution here means that lines in cool stellar atmospheres and HII regions can be resolved The astrophysical topics discussed in this rather specialized workshop range from the inner solar system to active galactic nuclei There are many possibilities for new discoveries with these instruments but the unique capability which becomes available through high resolution infrared spectroscopy is the observation of molecular rotational vibrational transitions in many astrophysical environments Particularly interesting and surprising in this context many

papers on modeling and laboratory spectroscopy at the workshop appear to indicate that astronomical observations are lagging a bit behind in this field. The papers are an interesting mix of reports from existing high resolution facilities, reports on modeling efforts of synthetic spectra and reports on laboratory spectra. In this sense a fruitful exchange between molecular physics and astronomy was again accomplished and is documented in this volume. *Active Close Binaries* Cafer Ibanogammalu, 2012-12-06

Since the 1970s symposia or colloquia devoted to recent research on close binaries have been held around the world almost annually. At meetings of the General Assembly of the International Astronomical Union this topic has also been discussed in detail at presentations in various commission meetings and also as invited talks by leading astronomers in the field. In recent years fundamental changes have taken place in the study of close binaries due to the improvements in observational techniques, extension of observations from X-ray to radio regions of the electromagnetic spectrum and advances in theoretical studies. For more than a decade a group of astronomers at Ege University Observatory has been concentrating on active close binaries with particular emphasis on the behaviour of the light curves of chromospherically active systems. Thus we decided to organize an international meeting in Western Anatolia where this part of Turkey had been the cradle for great developments in science during antiquity. Kuşadası, located only minutes away from Ephesus, one of the seven wonders of the world, was selected to be the meeting site. Close binary systems constitute a very rich source of information about the physical properties of the component stars. Some systems are eclipsing variables where periodic recurrences of eclipses are observed as comparatively brief decreases in the total brightness of the binary system. Precise methods of photometric observations make it possible to obtain the light variations of these systems because of eclipses and other phenomena.

Stellar Surface Structure Book Review: Unveiling the Power of Words

In some sort of driven by information and connectivity, the ability of words has be more evident than ever. They have the ability to inspire, provoke, and ignite change. Such could be the essence of the book **Stellar Surface Structure**, a literary masterpiece that delves deep to the significance of words and their affect our lives. Published by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we will explore the book is key themes, examine its writing style, and analyze its overall impact on readers.

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