

Stellar Surface Structures

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Stellar Surface Structure

Lex Kaper, Alexander W. Fullerton



Stellar Surface Structure:

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 Stellar Surface Structure Klaus G.

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Symposium, 1995 *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

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

Stellar Surface Structure Klaus G. Strassmeier, 1995 *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

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 diagnostics. 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.

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.

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.

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