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Stellar Atmospheres: Beyond Classical Models

Edited by

L. Crivellari, I. Hubeny and D. G. Hummer

NATO ASI Series

Series C: Mathematical and Physical Sciences - Vol. 341

Stellar Atmospheres Beyond Classical Models

Sarbani Basu, William J. Chaplin



Stellar Atmospheres Beyond Classical Models:

Stellar Atmospheres Lucio Crivellari,Ivan Hubený,David G. Hummer,1991 *Stellar Atmospheres: Beyond Classical Models* L. Crivellari,Ivan Hubeny,D. Hummer,2012-12-06 The theory of stellar atmospheres is one of the most important branches of modern astrophysics It is first of all a major tool for understanding all aspects of stars As the physical properties of their outer layers can now be found with high precision firm conclusions can be drawn about the internal structure and evolution of stars Moreover improvements in our knowledge of the chemical composition of stars is shedding new light on the chemical evolution of galaxies and of the Universe as a whole Because the outer layers of stars are among the best understood astrophysical objects the theory of stellar atmospheres plays an important role in the study of many other types of objects These include planetary nebulae H II regions interstellar matter and objects of interest in high energy astrophysics such as accretion disks close binaries dwarf novae cataclysmic variables quasars active galactic nuclei pulsar magnetospheres and Seyfert galaxies Finally as stars provide a laboratory in which plasmas can be studied under more extreme conditions than on earth the study of stellar atmospheres has strong connections with modern physics Astronomical observations provided a vital stimulus in the early stages of quantum theory and atomic physics even today topics such as low temperature dielectronic recombination develop hand in hand with the interpretation of stellar and nebular spectra Early work on MHD was similarly motivated Many such connections remain to be explored Stellar Atmospheres: Beyond Classical Models L. Crivellari,Ivan Hubeny,D. Hummer,1991-07-31 The theory of stellar atmospheres is one of the most important branches of modern astrophysics It is first of all a major tool for understanding all aspects of stars As the physical properties of their outer layers can now be found with high precision firm conclusions can be drawn about the internal structure and evolution of stars Moreover improvements in our knowledge of the chemical composition of stars is shedding new light on the chemical evolution of galaxies and of the Universe as a whole Because the outer layers of stars are among the best understood astrophysical objects the theory of stellar atmospheres plays an important role in the study of many other types of objects These include planetary nebulae H II regions interstellar matter and objects of interest in high energy astrophysics such as accretion disks close binaries dwarf novae cataclysmic variables quasars active galactic nuclei pulsar magnetospheres and Seyfert galaxies Finally as stars provide a laboratory in which plasmas can be studied under more extreme conditions than on earth the study of stellar atmospheres has strong connections with modern physics Astronomical observations provided a vital stimulus in the early stages of quantum theory and atomic physics even today topics such as low temperature dielectronic recombination develop hand in hand with the interpretation of stellar and nebular spectra Early work on MHD was similarly motivated Many such connections remain to be explored Literature 1991, Part 2 Astronomisches Rechen-Institut,2013-06-29 Astronomy and Astrophysics Abstracts appearing twice a year has become one of the fundamental publications in the fields of astronomy astrophysics and neighbouring sciences It is the most important

English language abstracting journal in the mentioned branches The abstracts are classified under more than a hundred subject categories thus permitting a quick survey of the whole extended material The AAA is a valuable and important publication for all students and scientists working in the fields of astronomy and related sciences As such it represents a necessary ingredient of any astronomical library all over the world

Instability and Variability of Hot-Star Winds Anthony F.J. Moffat, Stanley P. Owocki, Alex W. Fullerton, Nicole St-Louis, 2012-12-06 This specialized workshop was conceived during the workshop on Non isotropic and Variable Outflows from Stars which was held at the Space Telescope Science Institute in October 1991 At that meeting the four of us collectively decided that the time was ripe for an even more focussed discussion of the basic issues in the area of hot star wind instability and its observable manifestations Not that the big problems have been solved Rather we are currently in a phase of rapid development both with regard to the models and to the observations The key issue at this new workshop would be to decide how the time dependent structures observed in hot star winds e.g. NACs DACs blobs clumps filaments shells puffs jets etc relate to radiative and other instabilities Further questions concern the role of turbulence and the nature of its driver and the effect of stellar rotation pulsation and magnetic fields on time dependent phenomena in hot star winds Of no less importance is the impact of stellar wind variability on the derivation of mass loss rates on stellar evolution and on momentum energy deposition in the interstellar medium To attain our goal of maximum confrontation in the positive sense we decided 1 to limit the workshop to the observers and theoreticians most active in this field in the world 2 to insist that virtually all participants present a talk thereby avoiding the distraction of poster sessions and 3 to allocate approximately half of the allotted time to discussion

Disc Winds Matter James Matthews, 2017-08-01 This thesis describes the application of a Monte Carlo radiative transfer code to accretion disc winds in two types of systems spanning 9 orders of magnitude in mass and size In both cases the results provide important new insights On small scales the presence of disc winds in accreting white dwarf binary systems has long been inferred from the presence of ultraviolet absorption lines Here the thesis shows that the same winds can also produce optical emission lines and a recombination continuum On large scales the thesis constructs a simple model of disc winds in quasars that is capable of explaining both the observed absorption and emission signatures a crucial advance that supports a disc wind based unification scenario for quasars Lastly the thesis also includes a theoretical investigation into the equivalent width distribution of the emission lines in quasars which reveals a major challenge to all unification scenarios

Asteroseismic Data Analysis Sarbani Basu, William J. Chaplin, 2017-09-05 Studies of stars and stellar populations and the discovery and characterization of exoplanets are being revolutionized by new satellite and telescope observations of unprecedented quality and scope Some of the most significant advances have been in the field of asteroseismology the study of stars by observation of their oscillations Asteroseismic Data Analysis gives a comprehensive technical introduction to this discipline This book not only helps students and researchers learn about asteroseismology it also serves as an essential instruction manual for those

entering the field The book presents readers with the foundational techniques used in the analysis and interpretation of asteroseismic data on cool stars that show solar like oscillations The techniques have been refined and in some cases developed to analyze asteroseismic data collected by the NASA Kepler mission Topics range from the analysis of time series observations to extract seismic data for stars to the use of those data to determine global and internal properties of the stars Reading lists and problem sets are provided and data necessary for the problem sets are available online The first book to describe in detail the different techniques used to analyze the data on stellar oscillations Asteroseismic Data Analysis offers an invaluable window into the hearts of stars Introduces the asteroseismic study of stars and the theory of stellar oscillations Describes the analysis of observational time domain data Examines how seismic parameters are extracted from observations Explores how stellar properties are determined from seismic data Looks at the inverse problem where frequencies are used to infer internal structures of stars Advances in Solar Research at Eclipses from Ground and from Space Jean-Paul

Zahn, Magda Stavinschi, 2012-12-06 The aim of this Advanced Study Institute was to give an account on the most recent results obtained in solar research Bucharest was chosen to host it because the capital city of Romania was located right in the middle of the totality path of the last eclipse of the millennium on 11th August 1999 furthermore the phenomenon was close to reach there its longest duration 2m 23s Such a total eclipse is not only a very spectacular event which draws the crowds to astronomers solar eclipses still offer the best conditions for observing the lower part of the corona The Sun plays a crucial role in our very existence It was responsible for the formation of the Earth and rendered this planet fit to host living beings providing the right amount of heat and this for a long enough span of time Quite understandably it has always been a prime target of human curiosity and more recently one of scientific investigation During the last century it was realized that the Sun is a star like billions of others we learned since that it draws its energy from the nuclear fusion of hydrogen and we are now able to estimate its age and life expectancy **First Light in the Universe** Brigitte Rocca-Volmerange, 1993

ESSCIRC '97 H. Grünbacher, 1997 Infrared Solar Physics D.M. Rabin, J.T. Jefferies, C. Lindsey, 2012-12-06 Infrared Solar Physics contains the proceedings of the 154th Symposium of the International Astronomical Union held in Tucson Arizona March 2 5 1992 Aimed at active workers and graduate students in solar physics this volume provides the first comprehensive view of a rapidly expanding discipline that gives us a new perspective on the sun Measurements across the wide infrared spectral range here from 1 μm to 1 mm can probe the solar atmosphere from below the visible surface through the outer reaches of the corona Taking full advantage of revolutionary advances in detector technology infrared observations from the ground aircraft and space have led to a better understanding of solar magnetic fields atmospheric structure and activity and elemental abundances The infrared has also provided new interpretive challenges such as the appearance of the 12 μm emission lines of magnesium These and other developments are discussed here by the leading contributors to the field who also give their perspectives on the future of this rich field of study An Introduction to

Astrophysical Hydrodynamics Steven N. Shore, 2012-12-02 This book is an introduction to astrophysical hydrodynamics for both astronomy and physics students It provides a comprehensive and unified view of the general problems associated with fluids in a cosmic context with a discussion of fluid dynamics and plasma physics It is the only book on hydrodynamics that addresses the astrophysical context Researchers and students will find this work to be an exceptional reference Contents include chapters on irrotational and rotational flows turbulence magnetohydrodynamics and instabilities **The Carbon**

Star Phenomenon International Astronomical Union. Symposium, 2000-07-31 Proceedings of the 177th Symposium of the International Astronomical Union held in Antalya Turkey May 27 31 1996 **Geophysical & Astrophysical Convection**

Peter A Fox, Robert M. Kerr, 2000-08-08 Geophysical and Astrophysical Convection collects important papers from an international group of the world's foremost researchers in geophysical and astrophysical convection to present a concise overview of recent thinking in the field Topics include Atmospheric convection solar and stellar convection unsteady non penetrative thermal convection astrophysical convection and dynamos dynamics of cumulus convection turbulent convection helical buoyant convection transport phenomena potential vorticity rotating convective turbulence and the modeling and simulation various types of convection and turbulence *The Exoplanet Handbook* Michael

Perryman, 2018-08-30 A complete and in depth review of exoplanet research covering the discovery methods physics and theoretical background **Modelling of Stellar Atmospheres** International Astronomical Union. Symposium, 2003

White Dwarfs: Advances in Observation and Theory M.A. Barstow, 2012-12-06 The European Workshop on White Dwarfs was initiated by Prof V Weidemann with the first meeting held in Kiel FRG in 1974 Since then a similar workshop has been held almost every two years Frascati 1976 Tel Aviv 1978 Paris 1981 Kiel 1984 Frascati 1986 and Toulouse 1990 Two major IAU colloquia have also been devoted to the study of white dwarfs No 53 Rochester NY 1979 No 114 Hanover NH 1988 Our most recent meeting the 8th Workshop marks a number of important advances in both observational and theoretical studies of white dwarfs This coincides with a significant expansion in the size of the community active in the field as was clear from an increase in the number of participants between this workshop 77 and that in Toulouse 46 just two years ago Key parts of any workshop are the discussion sessions following the papers However these are difficult to record and very often the live flavour of the debates is lost During this workshop we carried out an experiment recording the discussion sessions on video tape and then transcribing these later for the proceedings Although the recordings were made in non studio conditions with regard to lighting and noise only a very small part was unintelligible All participants were given an opportunity to check their questions and answers for scientific accuracy and to correct any errors arising in the transcription process **The Structure of the Sun** T. Roca Cortes, F. Sánchez, Francisco Sanchez, 1996-08-28 The complex internal structure of the Sun can now be studied in detail through helioseismology and neutrino astronomy The VI Canary Islands Winter School of Astrophysics was dedicated to examining these powerful new techniques Based on this meeting eight specially written

chapters by world experts are presented in this timely volume We are shown how the internal composition and dynamical structure of the Sun can be deduced through helioseismology and how the central temperature can be determined from the flux of solar neutrinos This volume provides an excellent introduction for graduate students and an up to date overview for researchers working on the Sun neutrino astronomy and helio and asteroseismology

Evolution of Massive Stars D. Vanbeverem, W. van Rensbergen, C. de Loore, 2012-12-06 Massive stars occupy an exceptional place in general astrophysics They trigger many if not all of the important processes in galactic evolution whereas due to their intrinsic brightness they offer the only until now possibility to study the stellar content and stellar behaviour in distant galaxies The last say 25 years massive stars have been the subject of numerous meetings discussing the influence of massive stars on population synthesis the number distribution of different types of massive stars the LBV phenomenon WR stars X ray binaries stellar winds in massive stars chemical peculiarities in massive stars supernova explosions of massive stars and the important SN1987A event the influence of massive stars and chemical evolution of galaxies It is clear that without a theory of stellar evolution the study of these topics loses a lot of its significance Massive star evolution therefore got a chance in these meetings but rarely as a prime subject The state of the art the physical processes and the uncertainties in stellar evolution were barely touched Even more the influence of close binaries in all these massive star meetings slowly disappeared the last say 13 years without any scientific justification although a significant fraction of stars occurs in close binaries with periods small enough so that both components will interact during their evolution Denying the binaries or not discussing their influence on results and conclusions makes the latter very uncertain or even completely unreliable

Molecules in Astrophysics: Probes and Processes International Astronomical Union. Symposium, 1997-04-30 Proceedings of the 178th Symposium of the International Astronomical Union held in Leiden The Netherlands July 1 5 1996

Reviewing **Stellar Atmospheres Beyond Classical Models**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is actually astonishing. Within the pages of "**Stellar Atmospheres Beyond Classical Models**," an enthralling opus penned by a highly acclaimed wordsmith, readers embark on an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve in to the book is central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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Table of Contents Stellar Atmospheres Beyond Classical Models

1. Understanding the eBook Stellar Atmospheres Beyond Classical Models
 - The Rise of Digital Reading Stellar Atmospheres Beyond Classical Models
 - Advantages of eBooks Over Traditional Books
2. Identifying Stellar Atmospheres Beyond Classical Models
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Stellar Atmospheres Beyond Classical Models
 - User-Friendly Interface
4. Exploring eBook Recommendations from Stellar Atmospheres Beyond Classical Models
 - Personalized Recommendations
 - Stellar Atmospheres Beyond Classical Models User Reviews and Ratings

- Stellar Atmospheres Beyond Classical Models and Bestseller Lists
- 5. Accessing Stellar Atmospheres Beyond Classical Models Free and Paid eBooks
 - Stellar Atmospheres Beyond Classical Models Public Domain eBooks
 - Stellar Atmospheres Beyond Classical Models eBook Subscription Services
 - Stellar Atmospheres Beyond Classical Models Budget-Friendly Options
- 6. Navigating Stellar Atmospheres Beyond Classical Models eBook Formats
 - ePub, PDF, MOBI, and More
 - Stellar Atmospheres Beyond Classical Models Compatibility with Devices
 - Stellar Atmospheres Beyond Classical Models Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Stellar Atmospheres Beyond Classical Models
 - Highlighting and Note-Taking Stellar Atmospheres Beyond Classical Models
 - Interactive Elements Stellar Atmospheres Beyond Classical Models
- 8. Staying Engaged with Stellar Atmospheres Beyond Classical Models
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Stellar Atmospheres Beyond Classical Models
- 9. Balancing eBooks and Physical Books Stellar Atmospheres Beyond Classical Models
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Stellar Atmospheres Beyond Classical Models
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Stellar Atmospheres Beyond Classical Models
 - Setting Reading Goals Stellar Atmospheres Beyond Classical Models
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Stellar Atmospheres Beyond Classical Models
 - Fact-Checking eBook Content of Stellar Atmospheres Beyond Classical Models
 - Distinguishing Credible Sources

13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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