

# **Magnetodynamic Phenomena in the Solar Atmosphere - Prototypes of Stellar Magnetic Activity**

edited by

**Yutaka Uchida, Takeo Kosugi and Hugh S. Hudson**



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# Magnetodynamic Phenomena In The Solar Atmosphere Prototypes Of Stellar Magnetic Activity

**Yijin Wang**



## **Magnetodynamic Phenomena In The Solar Atmosphere Prototypes Of Stellar Magnetic Activity:**

Magnetodynamic Phenomena in the Solar Atmosphere Yutaka Uchida,Takeo Kosugi,Hugh S. Hudson,1996-09-30 These are the Proceedings of Colloquium No 153 of the International Astro nomical Union held at Makuhari near Tokyo on May 22 26 1995 and hosted by the National Astronomical Observatory This meeting was intended to be an interdisciplinary meeting between re searchers of solar and stellar activity in order for them to exchange the newest information in each field While each of these areas has seen remarkable advances in recent years and while the researchers in each field have felt that information from the other s domain would be extremely useful in their own work there have not been very many opportunities for intensive exchanges of information between these closely related fields We therefore expected much from this meeting in pro viding stellar researchers with new results of research on the counterparts of their targets of research spatially and temporarily resolved as observed on the Sun Likewise we hoped to provide solar researchers with new results on gigantic ver sions of their targets of research under the very different physical circumstances on other active stars It was our greatest pleasure that we had wide attendance of experts and active researchers of both research fields from all over the world This led to extremely interesting talks and very lively discussions thereby stimulating the exchange of ideas across the fields **Magnetodynamic Phenomena in the Solar Atmosphere** Yutaka Uchida,Takeo Kosugi,Hugh S.

Hudson,2011-11-02 These are the Proceedings of Colloquium No 153 of the International Astro nomical Union held at Makuhari near Tokyo on May 22 26 1995 and hosted by the National Astronomical Observatory This meeting was intended to be an interdisciplinary meeting between re searchers of solar and stellar activity in order for them to exchange the newest information in each field While each of these areas has seen remarkable advances in recent years and while the researchers in each field have felt that information from the other s domain would be extremely useful in their own work there have not been very many opportunities for intensive exchanges of information between these closely related fields We therefore expected much from this meeting in pro viding stellar researchers with new results of research on the counterparts of their targets of research spatially and temporarily resolved as observed on the Sun Likewise we hoped to provide solar researchers with new results on gigantic ver sions of their targets of research under the very different physical circumstances on other active stars It was our greatest pleasure that we had wide attendance of experts and active researchers of both research fields from all over the world This led to extremely interesting talks and very lively discussions thereby stimulating the exchange of ideas across the fields *Magnetodynamic Phenomena in the Solar Atmosphere* Hugh S. Hudson,Takeo

Kosugi,Yutaka Uchida,1996 Magnetodynamic Phenomena in the Solar Atmosphere Yutaka Uchida,Takeo Kosugi,Hugh S. Hudson,2013-11-11 These are the Proceedings of Colloquium No 153 of the International Astro nomical Union held at Makuhari near Tokyo on May 22 26 1995 and hosted by the National Astronomical Observatory This meeting was intended to be an interdisciplinary meeting between re searchers of solar and stellar activity in order for them to exchange the newest

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*Observational Plasma Astrophysics: Five Years of Yohkoh and Beyond* Tetsuya Watanabe,Takeo Kosugi,Alphonse C. Sterling,2012-12-06 Since its launch in 1991 the Yohkoh satellite has been returning unprecedented observations of solar flares and the dynamic solar corona This book is a collection of papers presented at a meeting held in Yoyogi Tokyo on the occasion of Yohkoh s fifth anniversary of operation The papers constitute a summary of observations and results over the five years including contributions based on data from Yohkoh s hard and soft X ray telescopes and its spectrometer experiments The five years of data covering approximately one half of a solar cycle reveal a fresh perspective on solar science with a new picture of solar flares and the active Sun emerging Also for the first time there are extensive results from Yohkoh observations of the Sun during the solar minimum period This wide ranging volume will be of interest to workers in solar physics and X ray astronomy It also contains material appropriate for supplemental reading for graduate students in solar physics

Plasmas in the Universe Società italiana di fisica,2000-10-25 This book illustrates new developments in the fields of space and solar physics stellar physics extragalactic physics and cosmology It also elaborates upon the progress of laboratory plasma physics One of the topics discussed is the existence of collective processes both linear and non linear that can explain key elements of accretion physics magnetic reconnection the formation of strange particle distributions particle scattering phenomena etc Astrophysical plasma are dominated by turbulent or quasi turbulent processes which interactively associate instabilities radiation processes and plasma wave scattering The resulting scenario which is outside thermodynamics and conventional statistical physics is too difficult to describe theoretically but today there are large scale experiments and powerful computational tools allowing for the exploration of an almost similarly complex variety of phenomena Several contributions to this book present indications of the influence of nonlinear phenomena in astrophysical applications This work marks the fast growth of plasma astrophysics thanks to new observations in the high energy band of the spectrum on the one hand and the possibility of validating and bringing to light relevant new theories by increasingly sophisticated machines on the other

**The Future of Small Telescopes in the New Millennium** Terry D. Oswalt,2012-12-06 The motivation for these volumes is to provide a vision for the future of small telescopes While this is an

admirable task ultimately I believe that as happens all the time in science the prognostications will be overtaken by a rapidly changing scientific reality As Virginia Trimble points out in chapter 1 the kinds of big questions that face us as astronomers today are rather different than the ones that drove the construction of astronomical facilities through much of the twentieth century Right now it appears that small telescopes will not have a lot of influence in answering those questions though they will of course contribute enormously to the many issues discussed throughout the three volumes We are on the verge of opening a whole new parameter space that may revolutionize the way we think of small telescopes and their role in astronomy the domain of the rapidly variable sky While the LSST is the most prominent example it is a long way in the future Nemiroff Rafert chapter 2 consider the value of monitoring large parts of the sky on a continuous basis using technology similar to a webcam They have installed their CONCAM2 at four locations including Kitt Peak A related project built and operated by the Harvard graduate student Gaspar Bakos HAT-1 Hungarian Automated Telescope also is in operation at Kitt Peak

Giants of Eclipse: The  $\zeta$  Aurigae Stars and Other Binary Systems Thomas B. Ake, Elizabeth Griffin, 2014-12-30 The zeta Aurigae stars are the rare but illustrious sub group of binary stars that undergo the dramatic phenomenon of chromospheric eclipse This book provides detailed descriptions of the ten known systems illustrates them richly with examples of new spectra and places them in the context of stellar structure and evolution Comprised of a large cool giant plus a small hot dwarf these key eclipsing binaries reveal fascinating changes in their spectra very close to total eclipse when the hot star shines through differing heights of the chromosphere or outer atmosphere of the giant star The phenomenon provides astrophysics with the means of analyzing the outer atmosphere of a giant star and how that material is shed into space The physics of these critical events can be explained qualitatively but it is more challenging to extract hard facts from the observations and tough to model the chromosphere in any detail The book offers current thinking on mechanisms for heating a star's chromosphere and on how a star loses mass and relates this science synergistically to studies of other stars and binaries and to the increasing relevance of contributions from new techniques in interferometry and asteroseismology It also includes a detailed discussion of the enigmatic star epsilon Aurigae which had recently undergone one of its very infrequent and very baffling eclipses Though not a zeta Aurigae system epsilon Aurigae is a true Giant among eclipsing stars The 7 chapters of this book written by a group of experts have been carefully edited to form a coherent volume that offers a thorough overview of the subject to both professional and student

The Sun from Space Kenneth R. Lang, 2013-04-18 Our familiar but often inscrutable star exhibits a variety of enigmatic phenomena that have continued to defy explanation Our book begins with a brief account of these unsolved mysteries Scientists could not for example understand how the Sun's intense magnetism is concentrated into dark sunspots that are as large as the Earth and thousands of times more magnetic Nor did they know exactly how the magnetic fields are generated within the Sun for no one could look inside it Another long standing mystery is the million degree solar atmosphere or corona that lies just above the cooler visible solar disk or

photosphere heat should not emanate from a cold object to a hotter one anymore than water should flow up hill Researchers have hunted for the elusive coronal heating mechanism for more than half a century The Sun's hot and stormy atmosphere is continuously expanding in all directions creating a relentless solar wind that seems to blow forever The exact sources of the wind's components and the mechanisms of its acceleration to supersonic velocities also remained perplexing problems The relatively calm solar atmosphere can be violently disrupted by powerful explosions filling the solar system with radio waves X rays and gamma rays and hurling charged particles out into space at nearly the speed of light

**The Solar Corona** Leon Golub, Jay M. Pasachoff, 2010 Intended for graduate students and astronomers seeking an introduction to coronal physics this textbook strikes a balance between the observational and theoretical aspects of the subject This second edition takes into account the major observational and theoretical developments of recent years to provide an up to date treatment of our understanding of the solar corona After reviewing the latest observations of the solar corona the authors explain how the studies have advanced and shaped our understanding of coronal physics The textbook introduces a wide variety of exciting physics including dynamo theory and magnetohydrodynamics and shows how the transient effects of the solar cycle affect space weather Each subject area is introduced using basic physics and refers readers to fundamental papers on the topic key new studies in each area and extensive discussions in recent review articles

Multi-Wavelength Observations of Coronal Structure and Dynamics Penny Martens, D. Cauffman, 2002-10-21 These are the Proceedings of the Yohkoh 10th Anniversary Meeting a COSPAR Colloquium held in Kona Hawaii USA on January 20-24 2002 The title of the meeting was Multi Wavelength Observations of Coronal Structure and Dynamics In these proceedings the many and varied advances of the dynamics solar atmosphere in the past ten years of observations by Yohkoh have been reviewed

**New Light on Dark Stars** Neill I. Reid, Suzanne L. Hawley, 2013-11-27 Perhaps the most common question that a child asks when he or she sees the night sky from a dark site for the first time is How many stars are there This happens to be a question which has exercised the intellectual skills of many astronomers over the course of most of the last century including for the last two decades one of the authors of this text Until recently the most accurate answer was We are not certain but there is a good chance that almost all of them are M dwarfs Within the last three years results from new sky surveys particularly the first deep surveys at near infrared wavelengths have provided a breakthrough in this subject solidifying our census of the lowest mass stars and identifying large numbers of the hitherto almost mythical substellar mass brown dwarfs These extremely low luminosity objects are the central subjects of this book and the subtitle should be interpreted accordingly The expression low mass stars carries a wide range of meanings in the astronomical literature but is most frequently taken to refer to objects with masses comparable with that of the Sun F and G dwarfs and their red giant descendants While this definition is eminently reasonable for the average extragalactic astronomer our discussion centres on M dwarfs with masses of no more than 60% that of the Sun and extends to failed stars objects with insufficient mass to ignite central hydrogen

fusion      **Probing the Sun with High Resolution** S. C. Tripathy, P. V. Venkatakrishnan, 2003 Contributed articles presented at the Meeting on Probing the Sun with High Resolution was held on Oct 10-16 2001 at Udaipur Solar Observatory Udaipur      Coronal Mass Ejections H. Kunow, N.U. Crooker, J.A. Linker, R. Schwenn, R. Von Steiger, 2007-12-03 It is well known that the Sun as central star of our solar system gravitationally controls the orbits of planets and minor bodies Much less known is the domain of plasma fields and charged particles however in which the Sun with a radius of less than 0.7 Million km governs the heliosphere out to about 15 Billion km a distance about 20 000 times larger in radius or nearly 10<sup>13</sup> times bigger in volume What forces activate the Sun to maintain this power Coronal Mass Ejections CMEs and their descendants are the troops serving the Sun during high solar activity periods This volume offers a comprehensive and integrated overview of our present knowledge and understanding of Coronal Mass Ejections CMEs and their descendants Interplanetary CMEs ICMEs It results from a series of workshops held between 2000 and 2004 An international team of about sixty experimenters involved e.g. in the SOHO ULYSSES VOYAGER PIONEER HELIOS WIND IMP and ACE missions ground observers and theoreticians worked jointly on interpreting the observations and developing new models for CME initiations development and interplanetary propagation The book is intended to provide scientists active in space physics research a with an up to date status of the current understanding of CMEs and ICMEs and their effects in the heliosphere and also to serve the advanced graduate student with introductory material on this active field of research      **The First Results from SOHO** Bernhard Fleck, Zdenek Svestka, 2012-12-06 The Solar and Heliospheric Observatory SOHO is a joint ESA NASA mission to study the Sun from its deep core to the outer corona and the solar wind SOHO was launched on 2 December 1995 and was inserted into a halo orbit around the L1 Lagrangian point on 14 February 1996 From this vantage point it is continuously monitoring the Sun the heliosphere and the solar wind particles that stream toward the Earth Nominal operations of the SOHO mission started in April 1996 after commissioning of the spacecraft and the scientific payload Detailed descriptions of the twelve instruments which represent the most comprehensive set of solar and heliospheric instruments ever developed and placed on the same platform can be found in The SOHO Mission Solar Physics Vol 162 Nos 1-2 1995 This volume contains papers reporting the first scientific results from the SOHO mission as well as descriptions of the in flight performance of some of the instruments published in two parts of a Solar Physics special Part I in Solar Physics Vol 170 No 1 Part II in Solar Physics Vol 175 No 2 Unique data from the three helioseismology instruments GOLF VIRGO MDI SOI provide new insights into the structure and dynamics of the solar interior from the deep core to the outermost layers of the convection zone The remote sensing instruments SUMER CDS EIT LASCO UVCS SWAN present exciting new data on a wide range of topics such as transition region dynamics coronal plumes coronal holes streamers and coronal mass ejections giving us our first comprehensive view of the outer solar atmosphere and corona These data are complemented by energetic particle measurements produced by the ERNE instrument on board SOHO      *Advances in*

*Space Environment Research* I.H. Cairns, S.B. Gabriel, J.P. Goedbloed, T. Hada, M. Leubner, L. Nocera, R. Stening, F. Toffoletto, C. Uberoi, J.A. Valdivia, U. Villante, C.-C. Wu, Y. Yan, 2012-12-06 *Advances in Space Environment Research Volume I* contains the proceedings of two international workshops the World Space Environment Forum WSEF2002 and the High Performance Computing in Space Environment Research HPC2002 organized by the World Institute for Space Environment Research WISER from 22 July to 2 August 2002 in Adelaide Australia The articles in this volume review the state of the art of the theoretical computational and observational studies of the physical processes of Sun Earth connections and Space Environment They cover six topical areas Sun Heliosphere Magnetosphere Bow Shock Ionosphere Atmosphere Space Weather Space Climate Space Plasma Physics Astrophysics and Complex Intelligent Systems **Heliophysics: Active Stars, their Astrospheres, and Impacts on Planetary Environments** Carolus J. Schrijver, Frances Bagenal, Jan J. Sojka, 2016-03-17 Heliophysics is a fast developing scientific discipline that integrates studies of the Sun's variability the surrounding heliosphere and the environment and climate of planets This volume the fourth in the Heliophysics collection explores what makes the conditions on Earth just right to sustain life by comparing Earth to other solar system planets by comparing solar magnetic activity to that of other stars and by looking at the properties of evolving exoplanet systems By taking an interdisciplinary approach and using comparative heliophysics the authors illustrate how we can learn about our local cosmos by looking beyond it and in doing so also enable the converse Supplementary online resources are provided including lecture presentations problem sets and exercise labs making this ideal as a textbook for advanced undergraduate and graduate level courses as well as a foundational reference for researchers in the many subdisciplines of helio and astrophysics **Exploring The Universe: A Festschrift In Honor Of R Giacconi** Herbert Gursky, Remo Ruffini, Luigi Stella, 2000-09-27 This volume is dedicated to Riccardo Giacconi for his sixty fifth birthday on the occasion of his being awarded a Laurea Honoris Causa in physics at the University of Rome La Sapienza A meeting was held in his honor and presentations were given that reflected the state of the art of research on subjects related to Giacconi's scientific interests and achievements through the decades This volume is based upon the papers presented at that meeting It provides a tribute to Riccardo Giacconi for his outstanding contributions towards opening up the entire field of high energy astrophysics **Magnetic Reconnection Processes in the Solar Atmosphere** COSPAR. Scientific Commission E. E2.3 Symposium (Nagoya, Japan), 2000 **Publications of the Astronomical Society of Japan** Nihon Tenmon Gakkai, 2003



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