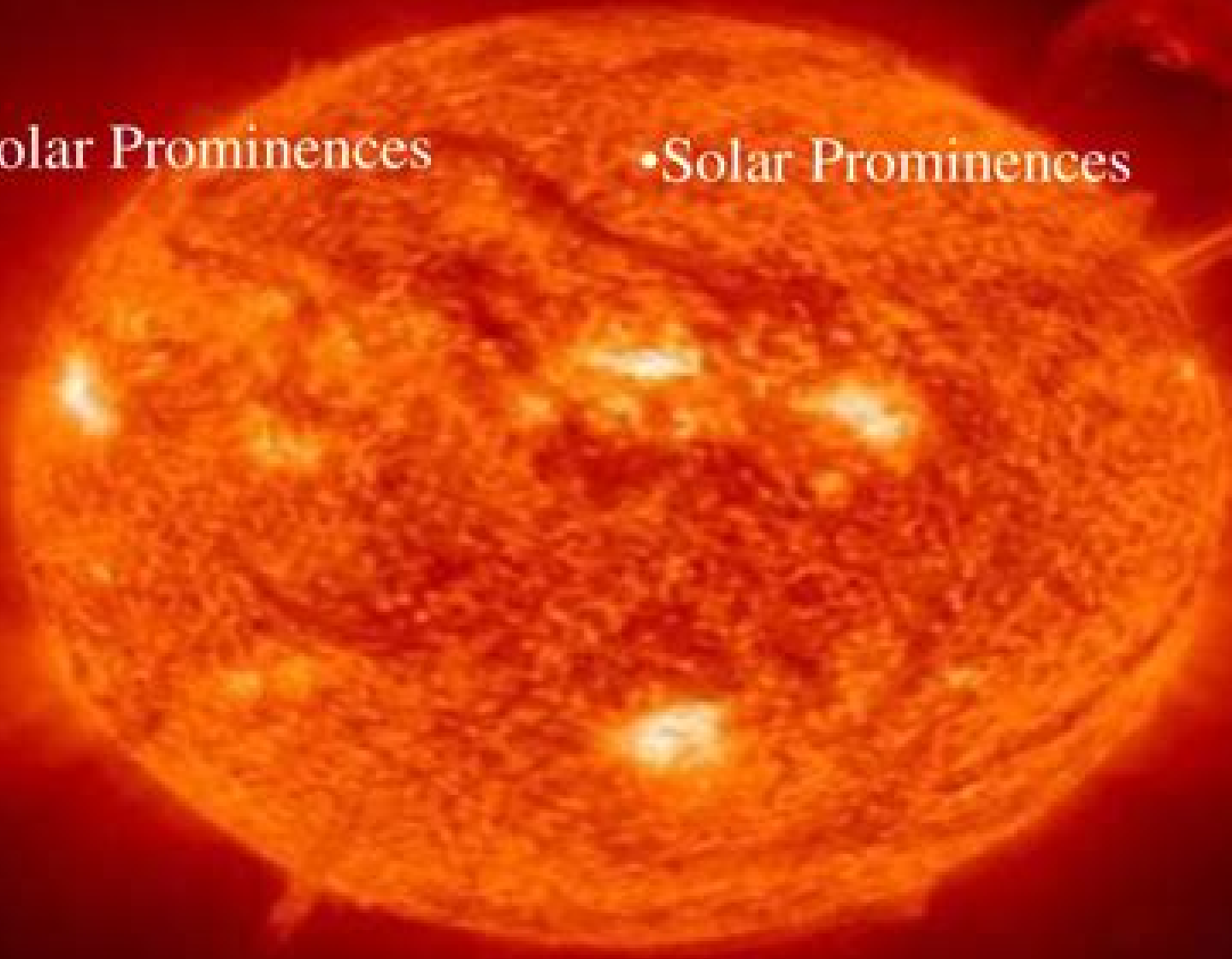


•Solar Prominences

•Solar Prominences



# Nature Of Solar Prominences

**P Murdin**

A decorative graphic consisting of a red semi-circle with a white center, positioned to the right of the author's name.

## **Nature Of Solar Prominences:**

*The Nature of Solar Prominences* Einar Tandberg-Hanssen, 2013-03-09 He is beautiful and radiant with great splendor St Francis from Cantico del sole Two decades have elapsed since the publication of *Solar Prominences* 20 years that have seen a nearly phenomenal increase in the interest as well as the information concerning these fascinating and beautiful manifestations of solar activity During this period many meetings have been held and several books and proceedings have been published all dealing with specific aspects of solar prominences However no unifying and comprehensive accord has appeared Recently some of my colleagues suggested that the time was ripe for a new addition of *Solar Prominences* and Kluwer Academic Publishers wanted to publish such a book I therefore venture to present this monograph in the hope of kindling the interest of some graduate students in the study of this probably the most spectacular and often the most beautiful of solar activity manifestation However since it is the physical processes behind these events that will particularly interest us I also hope the book may be of help to some of my colleagues In a rapidly developing field of science it is difficult if not impossible to present an overview that is up to date in every respect I have made nearly every effort to include the latest contributions in the broad area of prominence research but I am sure I have overlooked some important investigations For these oversights I apologize

Solar Prominences Jean-Claude Vial, Oddbjørn Engvold, 2014-11-24 This volume presents the latest research results on solar prominences including new developments on e.g. chirality fine structure magnetism diagnostic tools and relevant solar plasma physics In 1875 solar prominences as seen out of the solar limb were described by P A Secchi in his book *Le Soleil* as gigantic pink or peach flower coloured flames The development of spectroscopy coronagraphy and polarimetry brought tremendous observational advances in the twentieth century The authors present and discuss exciting new challenges resulting from observations made by space and ground based telescopes in the 1990s and the first decade of the 21st century concerning the diagnostics of prominences their formation their life time and their eruption along with their impact in the heliosphere including the Earth The book starts with a general introduction of the prominence object with some historical background on observations and instrumentation In the next chapter the various forms of prominences are described with a thorough attempt of classification Their thermodynamic and velocity properties are then derived with emphasis on the methods and their limits used This goes from the simplest optically thin case to the heavy radiative treatment of plasmas out of local thermodynamic equilibrium The following chapters are devoted to the magnetic field measurements and indirect derivation A new branch of diagnostic tools the seismology is presented along with some MHD basics This allows to better understand the propagation of waves the energy and force equilibria Both small scale and large scale studies and their relationship are presented The importance of the newly discovered cavities is stressed in the context of prominence destabilization The issues of prominence formation and eruption their connection with flares and Coronal Mass Ejections and their impact on the Earth are addressed on the basis of the latest results Finally an exciting new

area of research is unveiled with the newly discovered evidence of similar manifestations in the Universe and their possible impact on the habitability of exoplanets References to the basic physics where necessary are provided and the proposed web sites addresses will allow the reader to load exciting movies The book is aimed at advanced students in astrophysics post graduates solar physicists and more generally astrophysicists Amateurs will enjoy the many new images which go with the text *The Sun's Place in Nature* Sir Norman Lockyer,1897 Nature Sir Norman Lockyer,1903 **Nature** ,1895

*Eruptions on the Sun* Boris Filippov,2024-06-28 This book is devoted to eruptive phenomena on the Sun the most dangerous sources of space weather disturbances It discusses the latest achievements in this field described in the scientific literature and obtained by the author himself The initial chapters of the book give a brief description of the role of the Sun in the life and history of mankind a general description of the solar interior and the atmosphere of the Sun the causes and drivers of solar activity and its impact on the Earth s environment and human life The book provides a detailed description of eruptive phenomena on the Sun a review of observations of solar activity and theoretical ideas about the mechanisms and causes of a sudden release of energy in the solar atmosphere Much attention is paid to the solar magnetic fields their characteristic features and measured values in the photosphere the observed manifestations in the chromosphere and corona and methods for extrapolating photospheric data to the upper layers of the solar atmosphere It is assumed that the magnetic field is the source of energy suddenly released during eruptive phenomena observed in the form of flares prominence eruptions and coronal mass ejections CMEs Energy is accumulated and stored in the non potential associated with electric currents part of the coronal magnetic field free magnetic energy This part of the field is the most variable and can provide energy for fast eruptive processes CMEs propagating through the interplanetary medium significantly perturb it and cause the strongest geomagnetic storms when they affect the Earth s magnetosphere The prediction of the arrival of the CME is the key problem of the entire space weather forecast Thus pre eruptive conditions in CME source regions are of great importance Solar prominences and filaments are considered the most likely progenitors of CMEs Most of the book is devoted to the description and analysis of their equilibrium and stability It is shown that there are measurable characteristics of the proximity of the prominence to the instability threshold which can be very useful in the problem of space weather forecasting The book contains many illustrations and links to the latest scientific articles and reviews on the topic It will be useful to researchers in the field of astrophysics solar physics geophysics as well as PhD and graduate students A study of quiescent prominences using SDO and STEREO data Panesar, Navdeep Kaur,2014-05-14 In this dissertation the structure dynamics and evolution of two quiescent prominences were studied Quiescent prominences are large structures and mainly associated with the quiet Sun region For the analysis the high spatial and temporal cadence data from the Solar Dynamic Observatory SDO and the Solar Terrestrial Relations Observatory STEREO were used The observations from two different directions were combined and the prominence in 3D were studied In the study of polar crown prominence the prominence

flows on limb were mainly investigated and its association with on disk brightenings were found The merging of diffused active region flux in the already formed chain of prominence caused the several brightenings in the filament channel and also injected the plasma upward with an average velocity of 15 km s In another study the triggering mechanism of a quiescent tornado like prominence was investigated Flares from the neighboring active region triggered the tornado like motions on the top of the prominence Active region field contracts after the flare which results in the expansion of prominence cavity The prominence helical magnetic field expands and plasma moves along the field lines which appear as a tornado like activity These observational investigations led to the understanding of structure and dynamics of quiescent prominences which could be useful for theoretical prominence models

**International Index to Periodicals**, 1915 An author and subject index to publications in fields of anthropology archaeology and classical studies economics folklore geography history language and literature music philosophy political science religion and theology sociology and theatre arts

**Unravelling Starlight** Barbara J. Becker, 2011-02-17 Challenging traditional accounts of the origins of astrophysics this book presents the first scholarly biography of nineteenth century English amateur astronomer William Huggins 1824 1910 A pioneer in adapting the spectroscope to new astronomical purposes William Huggins rose to scientific prominence in London and transformed professional astronomy to become a principal founder of the new science of astrophysics The author re examines his life and career exploring unpublished notebooks correspondence and research projects to expose the boldness of this scientific entrepreneur While Sir William Huggins is the main focus of the book the involvement of Lady Margaret Lindsay Huggins 1848 1915 in her husband s research is examined where it may have been previously overlooked or obscured Written in an engaging style this book has broad appeal and will be valuable to scientists students and anyone interested in the history of astronomy

The Constants of Nature Clarke, 1888

*The Sun as a Guide to Stellar Physics* Oddbjørn Engvold, Jean-Claude Vial, Andrew Skumanich, 2018-11-15 The Sun as a Guide to Stellar Physics illustrates the significance of the Sun in understanding stars through an examination of the discoveries and insights gained from solar physics research Ranging from theories to modeling and from numerical simulations to instrumentation and data processing the book provides an overview of what we currently understand and how the Sun can be a model for gaining further knowledge about stellar physics Providing both updates on recent developments in solar physics and applications to stellar physics this book strengthens the solar stellar connection and summarizes what we know about the Sun for the stellar space and geophysics communities Applies observations theoretical understanding modeling capabilities and physical processes first revealed by the sun to the study of stellar physics Illustrates how studies of Proxima Solaris have led to progress in space science stellar physics and related fields Uses characteristics of solar phenomena as a guide for understanding the physics of stars

**Encyclopedia of Astronomy & Astrophysics** P Murdin, 2001-01-01 In a unique collaboration Nature Publishing Group and Institute of Physics Publishing have published the most extensive and comprehensive reference work in astronomy and astrophysics This

unique resource covers the entire field of astronomy and astrophysics and this online version includes the full text of over 2 750 articles plus sophisticated search and retrieval functionality and links to the primary literature The Encyclopaedia s authority is assured by editorial and advisory boards drawn from the world s foremost astronomers and astrophysicists This first class resource is an essential source of information for undergraduates graduate students researchers and seasoned professionals as well as for committed amateurs librarians and lay people wishing to consult the definitive astronomy and astrophysics reference work *International Index to Periodicals* ,1952 *Chemical news and Journal of physical science* ,1868 *Chemical News and Journal of Industrial Science* ,1868

### **Reviews in astronomy and space sciences**

Christopher H. K. Chen,Alberto Fairén,Jonathan Eastwood,Olga V. Khabarova,Georgios Balasis,Rudolf A. Treumann,Philip J. Erickson,Nuno C. Santos,Steve B. Howell,Matthew Parry,Daniel Hestroffer,Yanxia Zhang,Majdi Hochlaf,Ankan Das,Ryan C. Fortenberry,David Leisawitz,Lucia Kleint,Mauro D'Onofrio,Milan S. Dimitrijevic,Joseph M. Trigo-Rodriguez,Carrie

Anderson,Zhonghua Yao,Chunshan Lin,Nadja S. Magalhaes,Guillem Domenech,2024-05-24 **Coronal Magnetometry**

Sarah E. Gibson,Laurel A. Rachmeler,Stephen M. White,2017-07-11 Magnetism defines the complex and dynamic solar corona It determines the magnetic loop structure that dominates images of the corona and stores the energy necessary to drive coronal eruptive phenomena and flare explosions At great heights the corona transitions into the ever outflowing solar wind whose speed and three dimensional morphology are controlled by the global coronal magnetic field Coronal magnetism is thus at the heart of any understanding of the nature of the corona and essential for predictive capability of how the Sun affects the Earth Coronal magnetometry is a subject that requires a concerted effort to draw together the different strands of research happening around the world Each method provides some information about the field but none of them can be used to determine the full 3D field structure in the full volume of the corona Thus we need to combine them to understand the full picture The purpose of this Frontiers Research Topic on Coronal Magnetometry is to provide a forum for comparing and coordinating these research methods and for discussing future opportunities [The Chemical News](#) ,1868 [The Heavens, an Illustrated Handbook of Popular Astronomy](#) Amedee Guillemin,2023-03-04 Reprint of the original first published in 1872

**Nature: A Weekly Illustrated Journal of Science** ,1911

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