

# Solar Prominence

A solar prominence is a large feature extending out from the Sun's surface that consists of plasma trapped by magnetic field lines.



# Solar Prominences

**S. Böhme, Ute Esser, Professor Dr.  
Walter Fricke, U. Güntzel-Lingner, I.  
Heinrich, D. Krahn, Dr. Lutz D.  
Schmadel, G. Zech**

## **Solar Prominences:**

*Nuclear Science Abstracts*, 1976      **Literature 1978, Part 1** S. Böhme, U. Esser, W. Fricke, I. Heinrich, D. Krahn, L. D. Schmadel, G. Zech, 2013-11-11      *Aerodynamic Phenomena in Stellar Atmospheres* United States. National Bureau of Standards, 1959      **Literature 1980, Part 1** Siegfried Böhme, Ute Esser, Professor Dr. Walter Fricke, Inge Heinrich, Wilfried Hofmann, Dietlinde Krahn, Dorothea Rosa, Dr. Lutz D. Schmadel, Gert Zech, 2013-11-11

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Challenges of Astronomy W. Schlosser,T. Schmidt-Kaler,E.F. Milone,2013-11-11 Challenges of Astronomy in a unique collection of thirty astronomy experiments ranging from ancient astronomy to cosmology Each of the experiments contains one or more challenges for the reader The progression is from the Earth outward through the solar system to the stellar and galactic realm Topics include the shape of the sky Stonehenge as a stoneage abacus determination of the size of the Earth the distance of the Moon and planets Kepler s laws planetary mass and density the temperatures and atmospheres of planets the speed of light the distances of stars the nature of the quiet and active Sun photometry and spectroscopy stars clusters and variable stars fundamental properties of stars and Olber s paradox Challenges of Astronomy is a translation and extensive revision of a German language resource book for secondary school teachers of science Physical science teachers will find this edition too a rich resource of experiments to their own milieus but it is suitable for many other English language readers too from northern and southern hemisphere locations The beginning experiments are suitable for bright high school and non science major university students while the later experiments which offer increasingly difficult challenges are more suitable for sciences majors Amateurs with a variety of skills will find this hands on book entertaining informative and useful

Monthly Notices of the Royal Astronomical Society Royal Astronomical Society,1923 The Journal publishes the results of original research in positional and dynamical astronomy astrophysics radio astronomy cosmology space research and the design of astronomical instruments Catalogue of Scientific Papers Royal Society (Great Britain),1916 *Catalogue of Scientific Papers (1800-1900): ser. 4 , 1884-1900* Royal Society (Great Britain),1916 NBS Technical Note ,1959 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<sup>-1</sup>. 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. *Scientific and Technical Aerospace Reports*, 1993

Literature 1976, Part 2 S. Böhme, Ute Esser, Professor Dr. Walter Fricke, U. Güntzel-Lingner, I. Heinrich, D. Krahn, Dr. Lutz D. Schmadel, G. Zech, 2013-04-18 Astronomy and Astrophysics Abstracts which has appeared in semi annual volumes since 1969 is devoted to the recording summarizing and indexing of astronomical publications throughout the world. It is prepared under the auspices of the International Astronomical Union according to a resolution adopted at the 14th General Assembly in 1970. Astronomy and Astrophysics Abstracts aims to present a comprehensive documentation of literature in all fields of astronomy and astrophysics. Every effort will be made to ensure that the average time interval between the date of receipt of the original literature and publication of the abstracts will not exceed eight months. This time interval is near to that achieved by monthly abstracting journals compared to which our system of accumulating abstracts for about six months offers the advantage of greater convenience for the user. Volume 18 contains literature published in 1976 and received before March 1 1977 some older literature which was received late and which is not recorded in earlier volumes is also included. The Astrophysical Journal, 1919 Letters to the Editor issued as Part 2 and separately paged from v 148 1967. **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.

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