

Score96 Solar Convection And Oscillations And Their Relationship

SCORE '96 - Frank P. Pijpers 1997

The existence of strongly convecting layers in the Sun and stars provides us with a natural laboratory for the study of dynamical processes in intensely turbulent, magnetized, rotating, radiating fluids.

Helioseismology has now given us a tool to measure the detailed properties of solar convection beneath the visible Sun, and thus to test our understanding of the nature of convection and of its influence on stellar structure and the radiative magnetohydrodynamics of solar convection, presenting and incorporating the newest results from numerical hydrodynamic simulations and helioseismic observations. The contributed papers present the very latest developments in each of these fields.

Memorie Della Società Astronomica Italiana - Società astronomica italiana 1998

Recent Insights Into the Physics of the Sun and Heliosphere - International Astronomical Union. Symposium 2001

SCORE '96: Solar Convection and Oscillations and their Relationship - F.P. Pijpers 2012-12-06

This volume contains the reviews and poster papers presented at the workshop Solar Convection and Oscillations and their Relationship: SCORE '96, held in Aarhus, Denmark, May 27 - 31, 1996. The aim of this workshop was to bring together experts in the fields of convection and helioseismology, and to stimulate collaborations and joint research. The participation to this workshop was purposely kept limited in order to provide optimal conditions for informal discussions. In autumn of 1995 the long-awaited GONG network of solar telescopes became fully operational and the first data already show significant improvement over existing datasets on solar oscillations. Furthermore, in December of 1995 the satellite SOHO was launched which, together with GONG, provides a major step forward in both the quantity and the quality of available solar oscillation data. It is with this in mind that we decided to organize the workshop to prepare for the optimal use of this wealth of data, with which to deepen our understanding of solar structure and specifically, of one of the longest-standing problems in solar and stellar modelling: the treatment of convection.

Advanced Solar Polarimetry - National Solar Observatory/Sacramento Peak. Summer Workshop 2001

Annotation This proceedings volume of the September 2000 workshop presents recent developments in spectropolarimetry and the measurement of solar magnetic fields using the Zeeman and Hanle effects. The 67 papers address new instrumentation for telescopes, weak polarization and coronal magnetic fields, infrared polarimetry and the physics of active regions, magnetohydrodynamic (MHD) simulations, high resolution polarimetry and the physics of flux tubes, and the analysis of Stokes profiles. No subject index. Annotation c. Book News, Inc., Portland, OR (booknews.com)

Flows and Magnetic Patterns on the Solar Surface - Hermance Jacqueline Hagenaar 1999

Numerical Astrophysics - Shoken M. Miyama 1999-03-31

This book contains all the oral and poster sessions presented at the 'Numerical Astrophysics 1998' symposium held in Tokyo on March 10-13, 1998. It covers a wide variety of research fields, from the large-scale structure of the Universe to planetary systems. Astrophysics employing all kinds of supercomputers, such as massive-parallel computers, parallel vector machines, and special-purpose computers, are included. Recent progress in numerical methods, remote data analysis, and special-purpose computers are also reviewed. This book is suitable for researchers and graduate students in astronomy/astrophysics, who want an overview of the present research fronts based on supercomputing.

Subsurface and Atmospheric Influences on Solar Activity - Rachel Howe 2008

Numerical Simulations of Solar and Stellar Convection and Oscillations - Dali Giorgobiani 2003

Solar Activity Cycle and Particle Acceleration - Jon Todd Hoeksema 2006

Plasmas in the Laboratory and in the Universe - Giuseppe Bertin 2004-03-26

The volume illustrates the State of the art and new directions in plasma physics, space physics, and astrophysics. It covers several hot topics of interdisciplinary interest where progress is made by the use of joint expertise. It summarizes an unusually lively symposium that has gathered world experts with a broad spectrum of research interests. Interdisciplinary meetings at the border between plasma physics and astrophysics are becoming increasingly important. In the recent past, several proceedings volumes have been devoted to astrophysical plasmas. This volume has the unique feature of being professional but not specialized, because it covers an unusually broad spectrum of topics under the common theme of the study of complex and collective phenomena in macroscopic systems, from the scale of laboratory plasma experiments to the scale of the universe. Included are: - basic plasma processes - space plasmas, planetary plasmas, and the heliosphere - solar and stellar plasmas - plasmas around compact objects - plasmas in galaxies - plasmas in clusters of galaxies - cosmological plasmas - testing plasma astrophysics in the laboratory

Solar Variability and Climate - E. Friis-Christensen 2000-12-31

Proceedings of an ISSI Workshop, 28 June - 2 July 1999, Bern, Switzerland

Solar Variability and Its Effects on Climate - Judit M. Pap 2004-01-09

Published by the American Geophysical Union as part of the Geophysical Monograph Series, Volume 141. This monograph presents a state-of-the-art description of the most recent results on solar variability and its possible influence on the Earth's climate and atmosphere. Our primary goal in doing so is to review solar energy flux variations (both electromagnetic and particle) and understand their relations to solar magnetic field changes and global effects, their impact on different atmospheric layers, and—as a collaboration of scientists working on solar-terrestrial physics—to note unresolved questions on an important interdisciplinary area. One of the highest-level questions facing science today is whether the Earth's atmosphere and climate system changes in a way that we can understand and predict. The Earth's climate is the result of a complex and incompletely understood system of external inputs and interacting parts. Climate change can occur on various time scales as a consequence of natural variability—including solar variability—or anthropogenic causes, or both. The Sun's variability in the form of sunspots and related magnetic activity has been the subject of careful study ever since the earliest telescopic observations. High precision photometric observations of solar-type stars clearly show that year-to-year brightness variations connected with magnetic activity are a widespread phenomenon among such stars. As our nearest star, the Sun is the only star where we can observe and identify a variety of structures and processes which lead to variations in the solar energy output, in both radiative and particle fluxes. Studying even tiny changes in solar energy flux variations may teach us about internal processes taking place in the Sun's convective zone and below.

Innovative Telescopes and Instrumentation for Solar Astrophysics - Stephen L. Keil 2003

The Observatory - 1998

Methods in Helio- and Asteroseismology - Frank P. Pijpers 2006

This book discusses the methods used in helio- and asteroseismology for the collection, analysis and interpretation of data. It is the first comprehensive discussion of helioseismic and asteroseismic

methodology, collecting techniques from over 300 research papers spread out over decades, with a critical discussion and inter-comparison. It enables the reader to follow the path of inference from the collection of the data at the telescope through to the understanding gained in terms of the modeling of solar and stellar physics and stellar evolution. By focusing on how results are obtained, rather than on the results themselves, this book provides the essential background needed to understand this field, which is rapidly advancing due to the availability of modern observing facilities both on the ground and in space. The material is accessible for advanced undergraduates and post-graduates, and provides an essential resource for researchers in the field.

The Solar-B Mission and the Forefront of Solar Physics - Takashi Sakurai 2004

Helioseismology and Solar Variability - COSPAR. Scientific Commission E. E2.1 Symposium (Nagoya, Japan) 1999

Solar Variability and Solar Physics Missions - COSPAR. Scientific Assembly 2002

The Solar Dynamics Observatory - Phillip Chamberlin 2012-05-05

This volume is dedicated to the Solar Dynamics Observatory (SDO), which was launched 11 February 2010. The articles focus on the spacecraft and its instruments: the Atmospheric Imaging Assembly (AIA), the Extreme Ultraviolet Variability Experiment (EVE), and the Helioseismic and Magnetic Imager (HMI). Articles within also describe calibration results and data processing pipelines that are critical to understanding the data and products, concluding with a description of the successful Education and Public Outreach activities. This book is geared towards anyone interested in using the unprecedented data from SDO, whether for fundamental heliophysics research, space weather modeling and forecasting, or educational purposes. Previously published in *Solar Physics* journal, Vol. 275/1-2, 2012. Selected articles in this book are published open access under a CC BY-NC 2.5 license at link.springer.com. For further details, please see the license information in the chapters.

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